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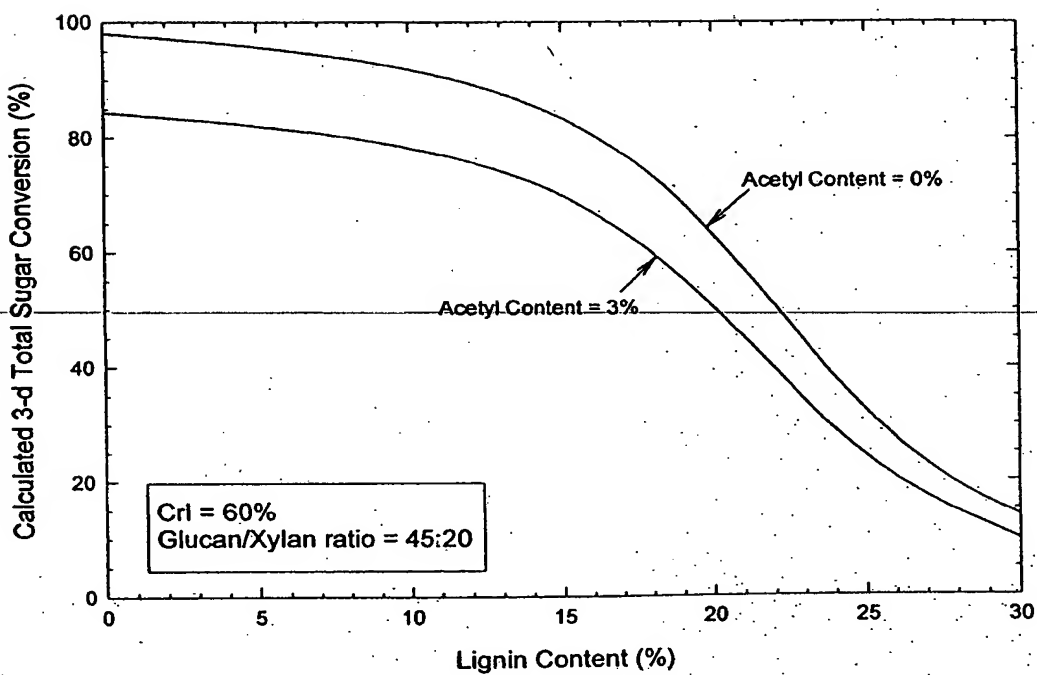


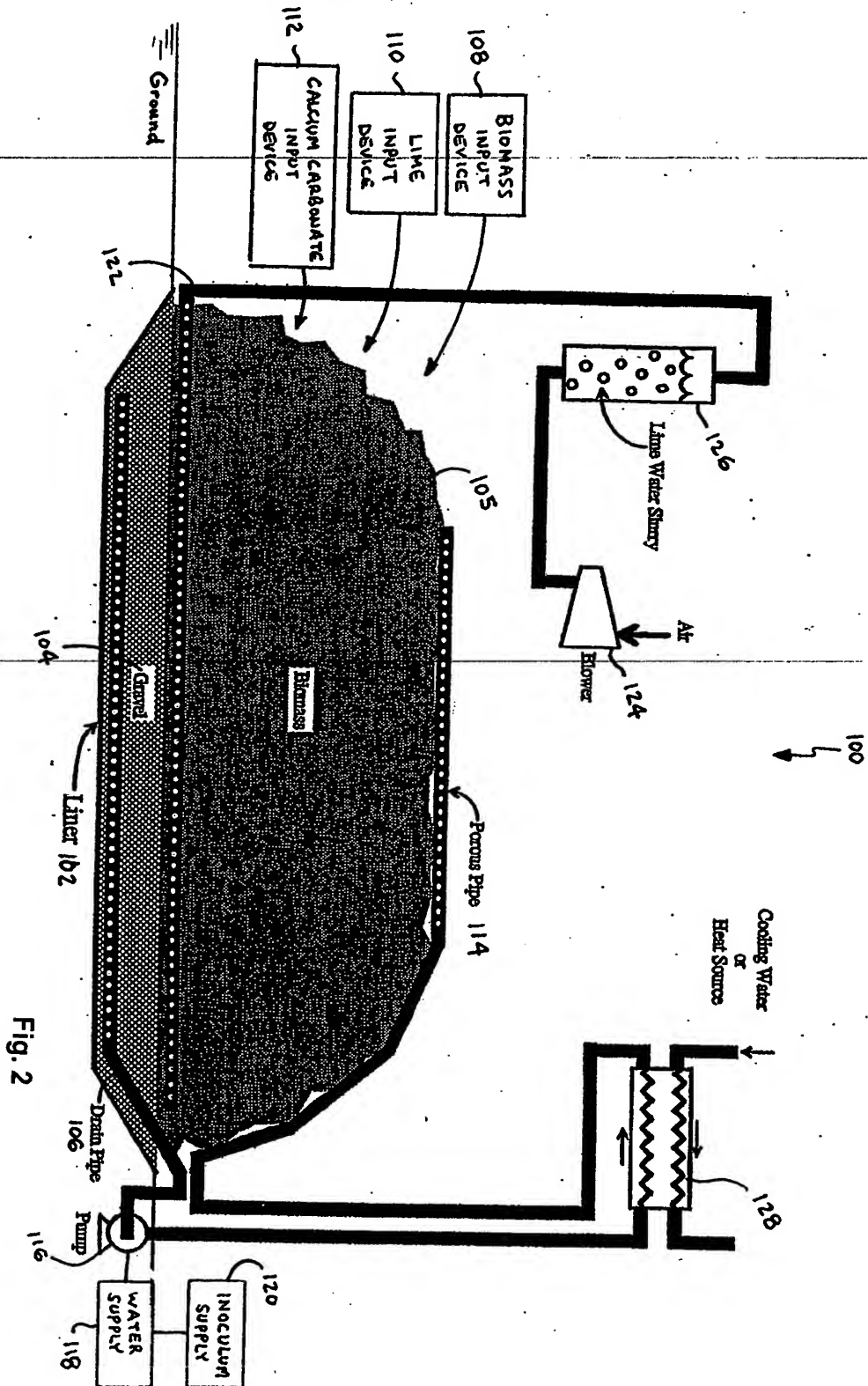
Fig. 1
PRIOR ART

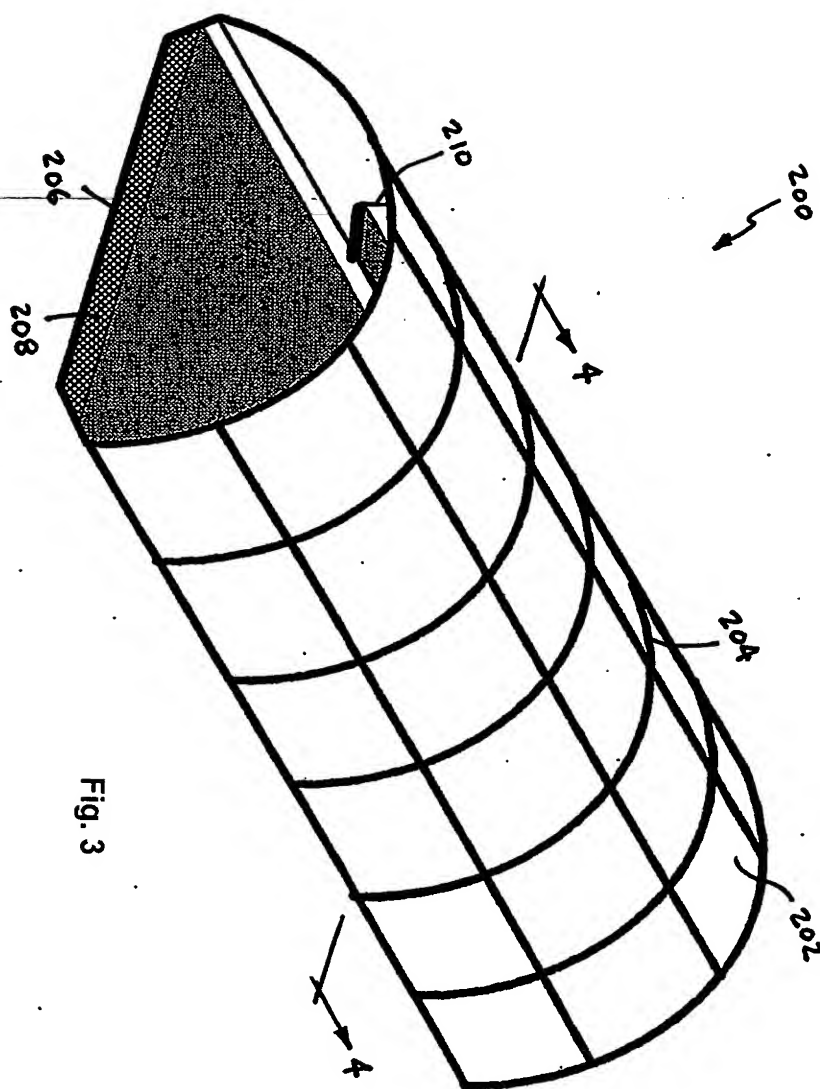
METHODS AND SYSTEMS FOR
PRETREATMENT AND PROCESSING OF
BIOMASS

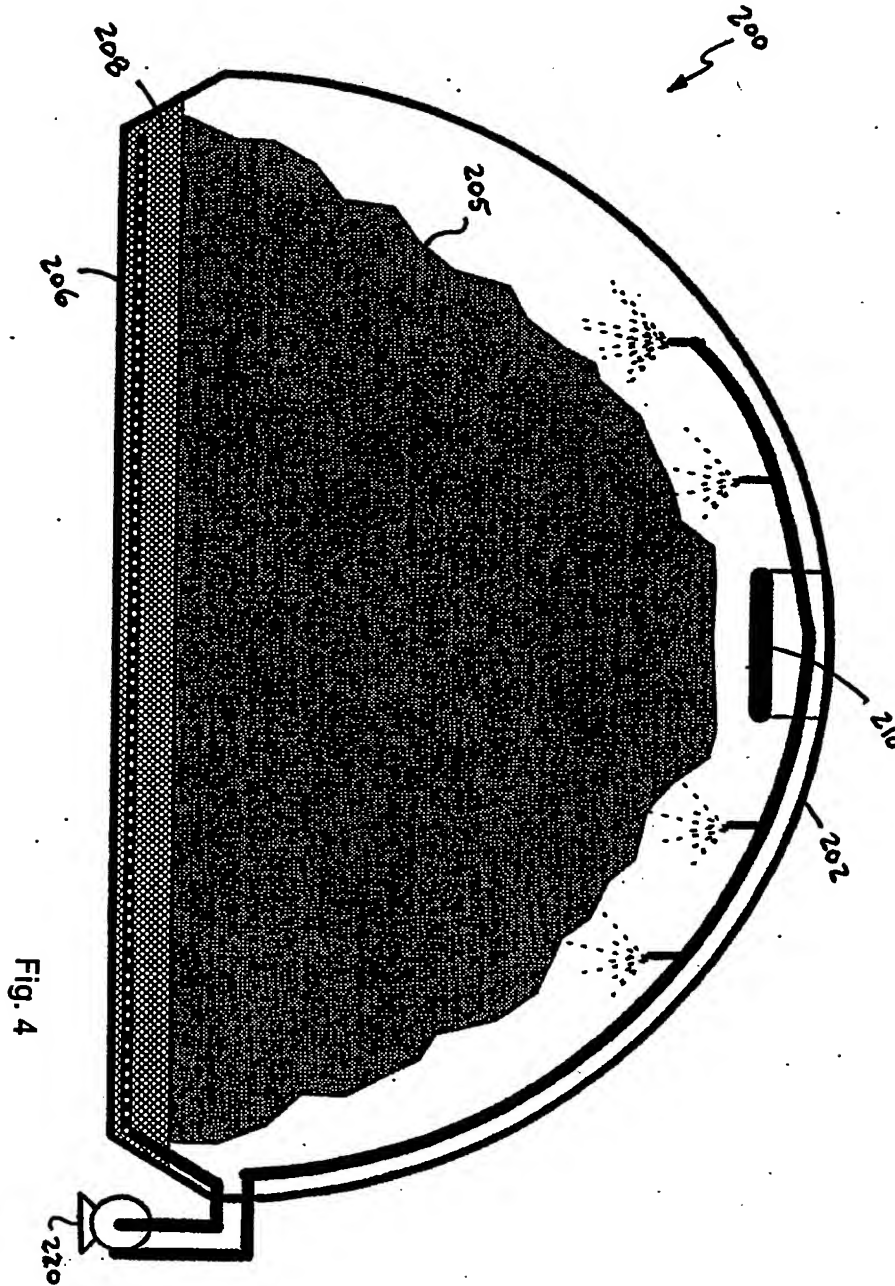
Filed: 10/31/03

Inventors: Mark Holtzaple et al.

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(TAMUS 1955/1603/1571)







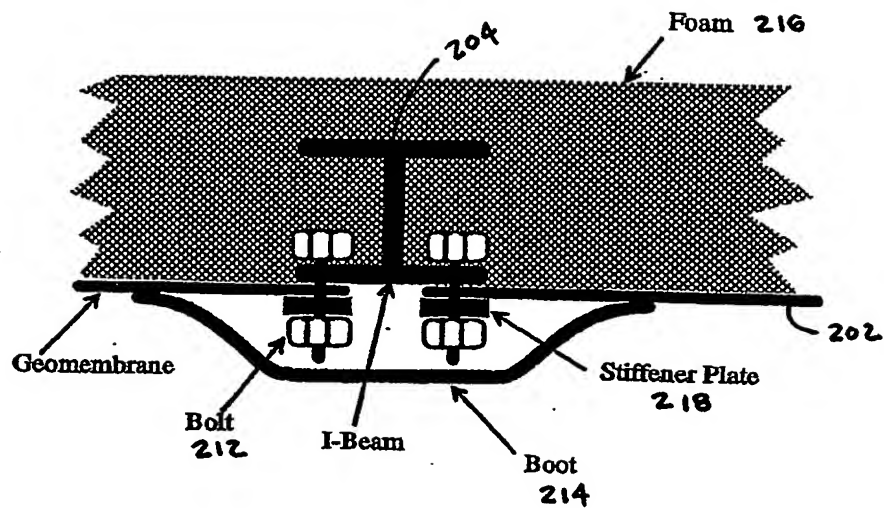


Fig. 5

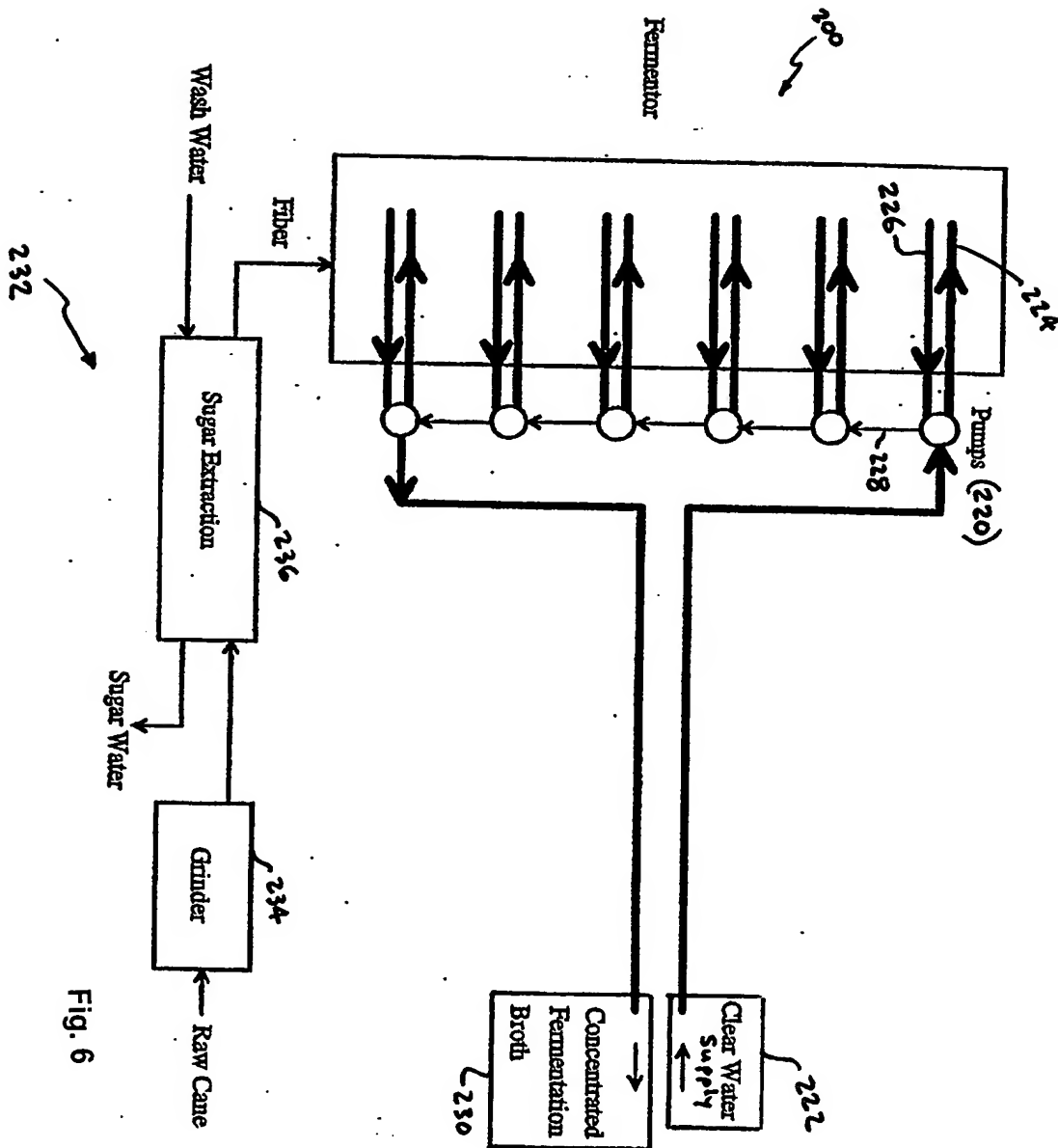
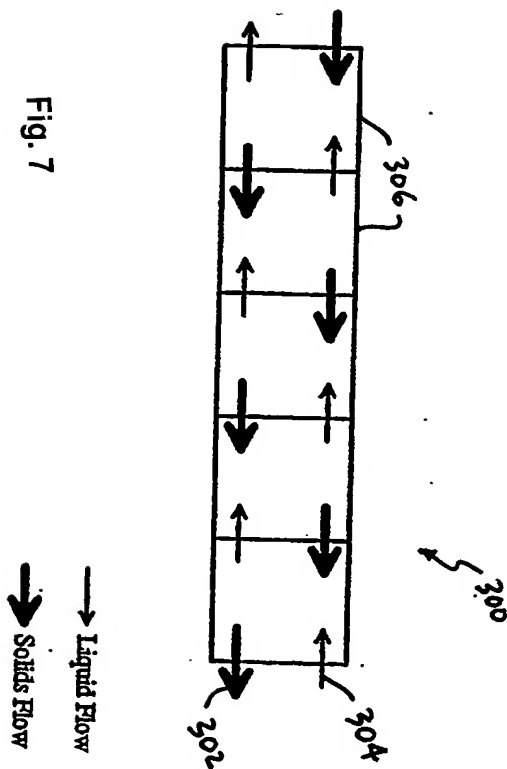


Fig. 6



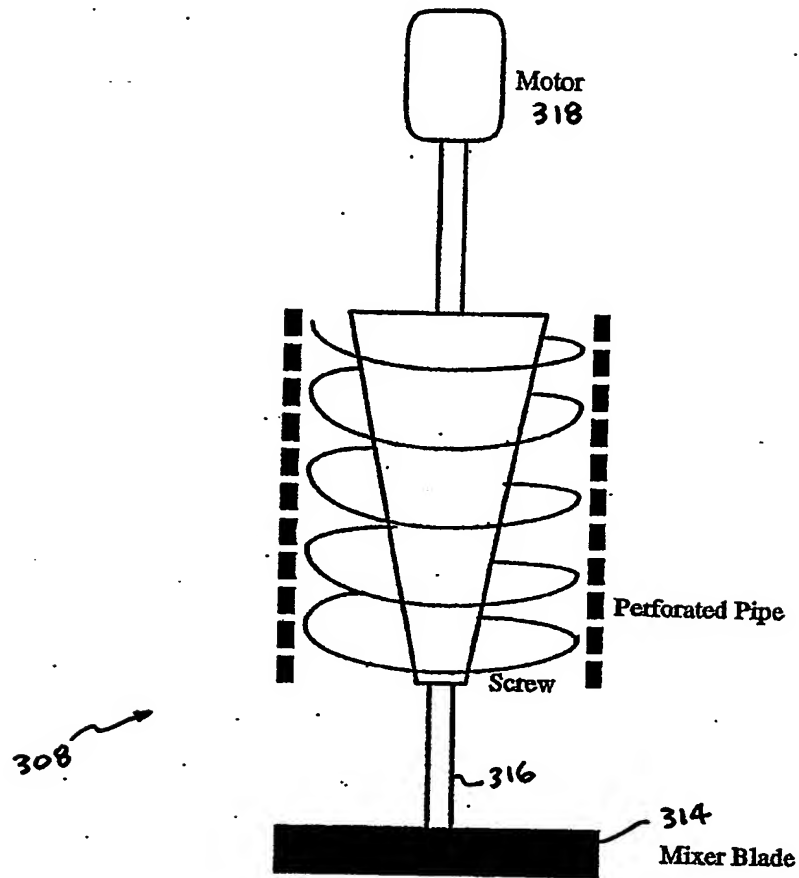
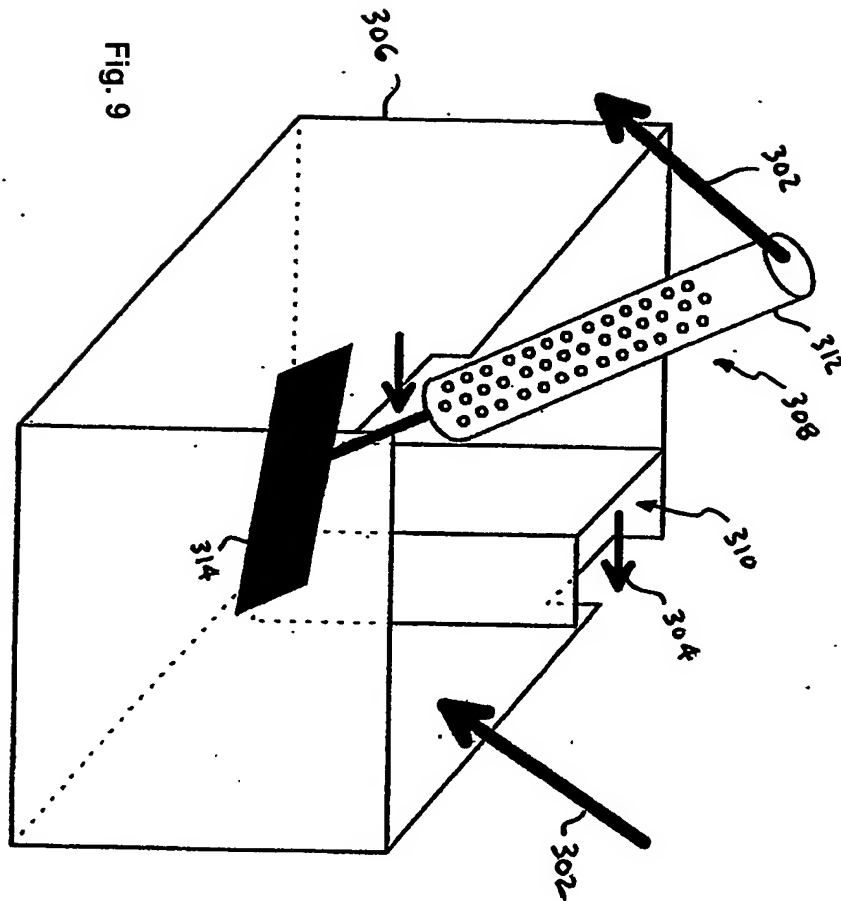
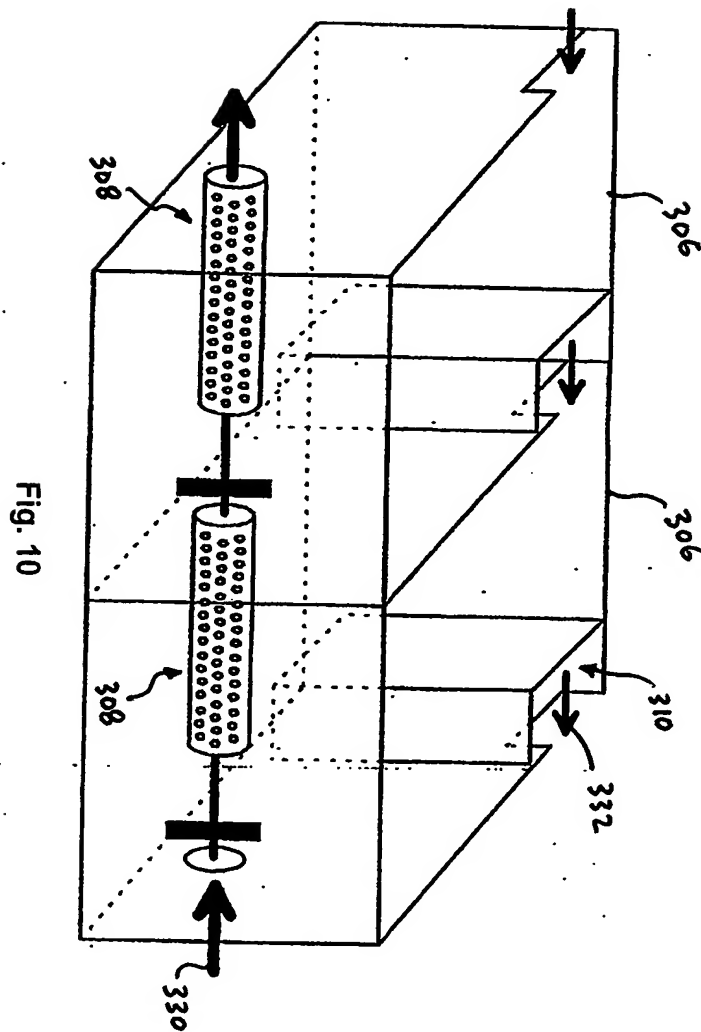


Fig. 8





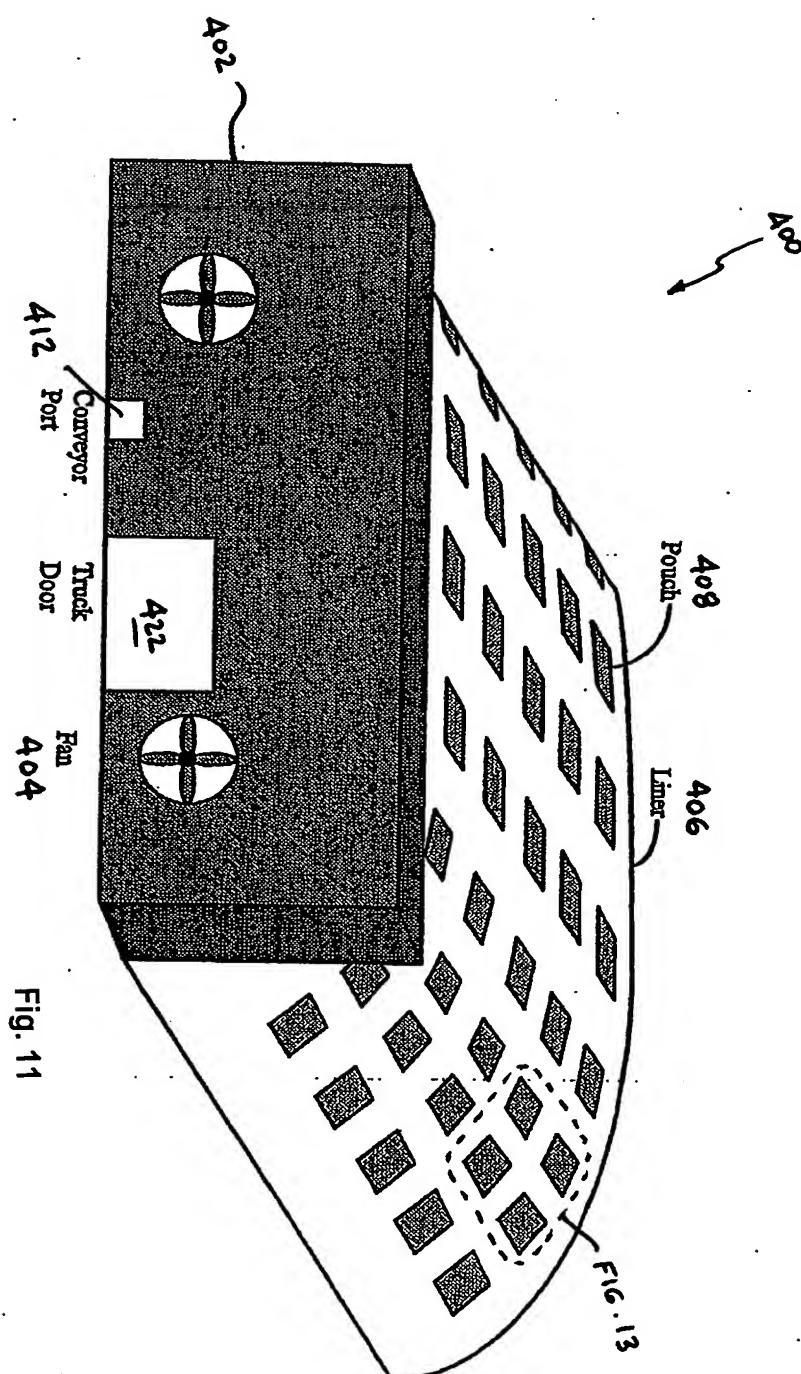
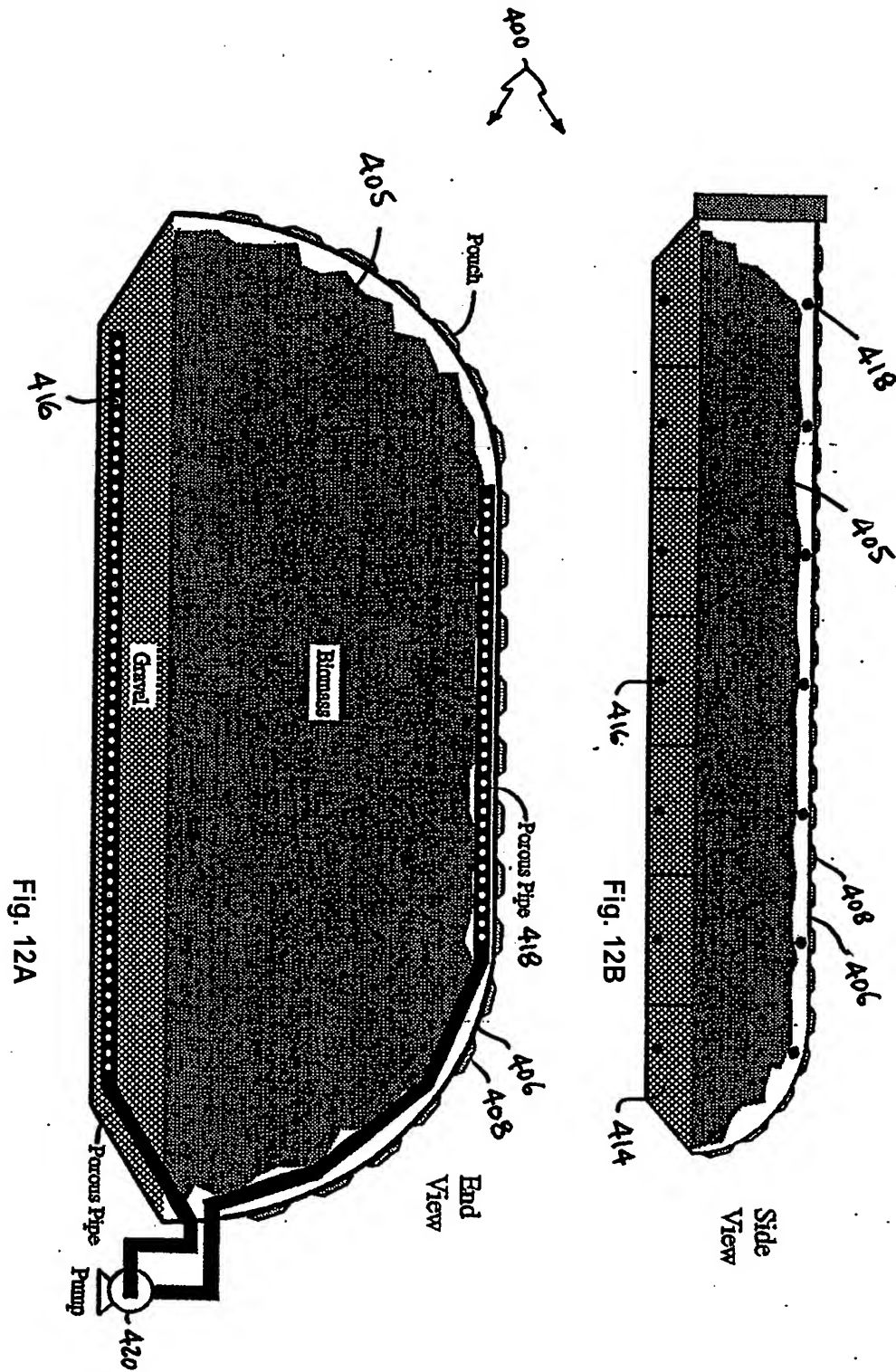
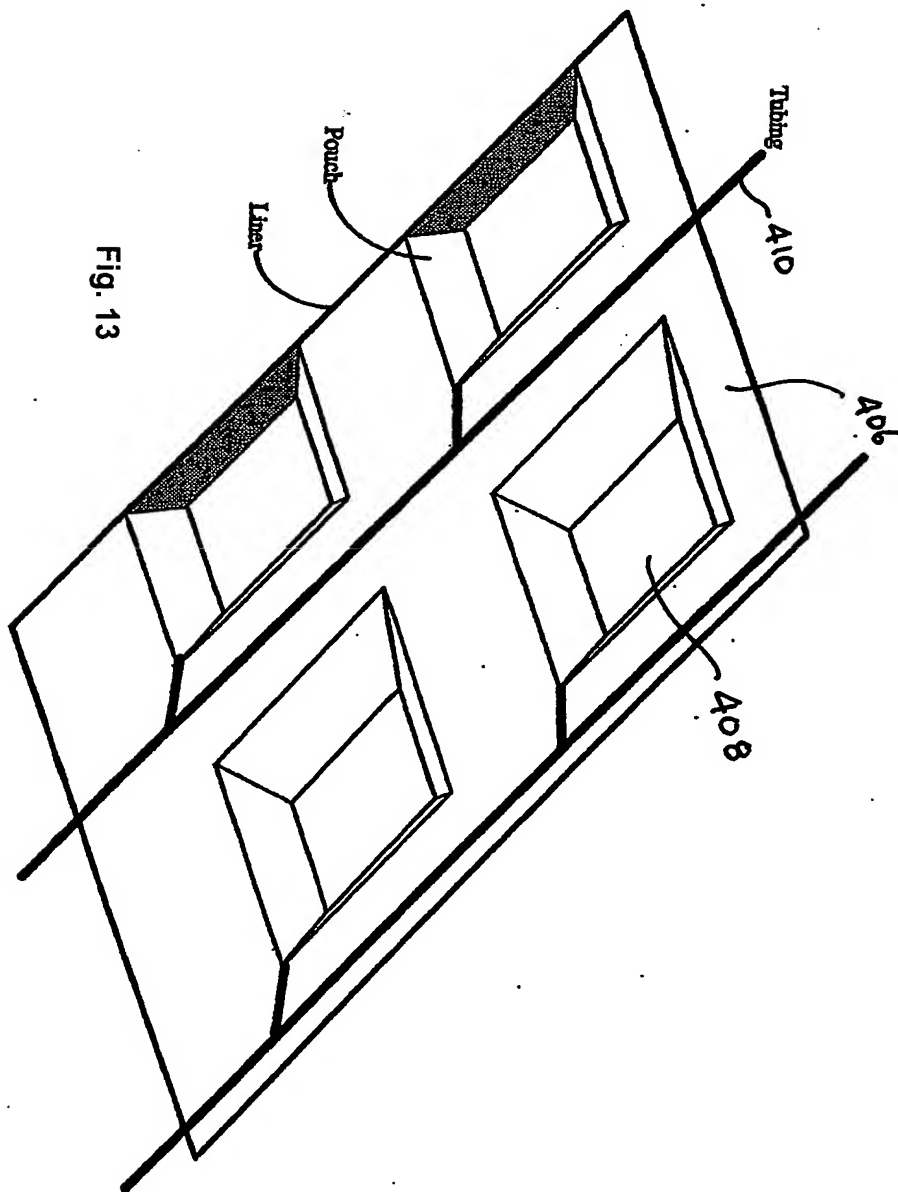


Fig. 11





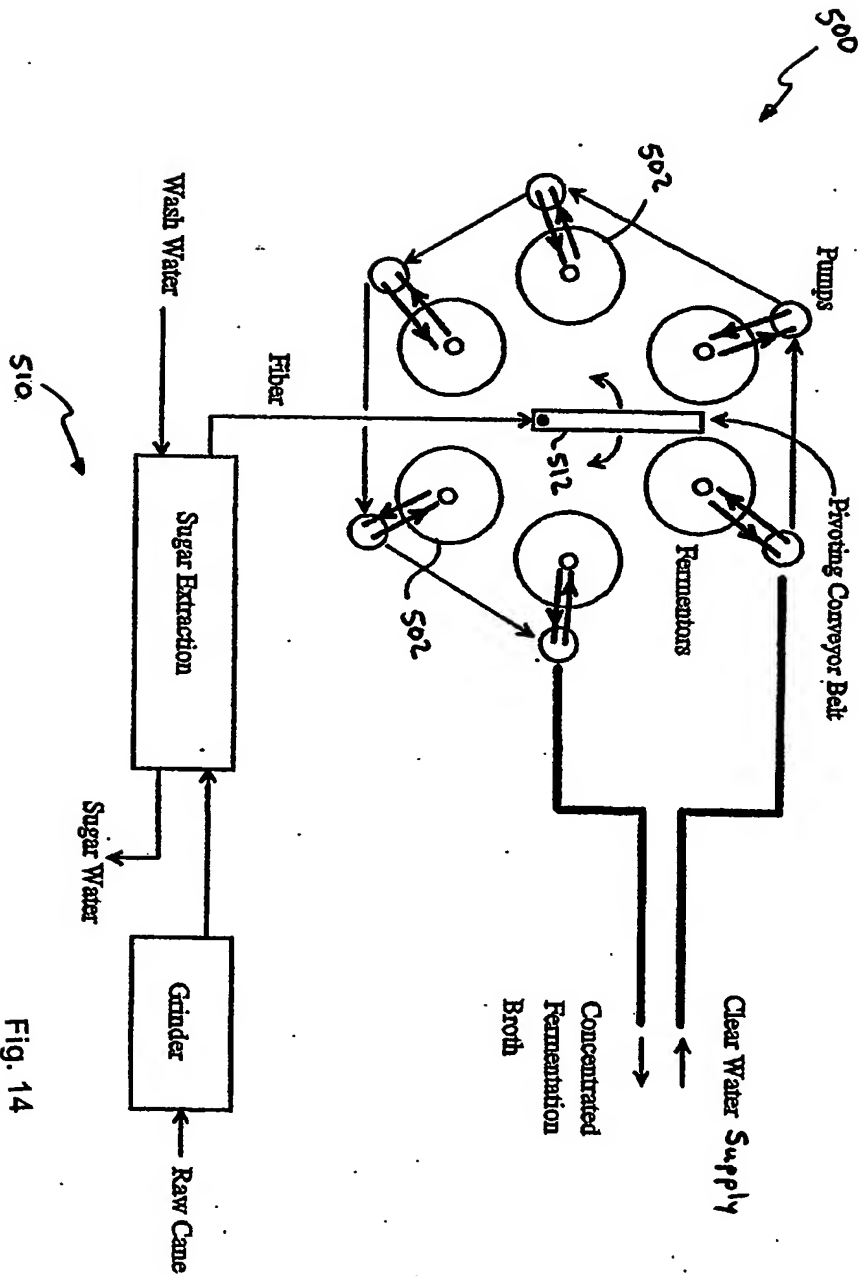


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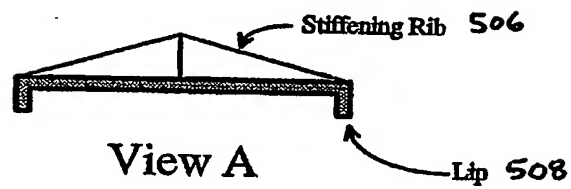
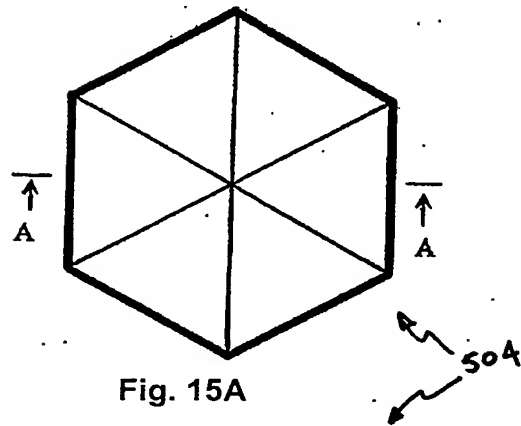


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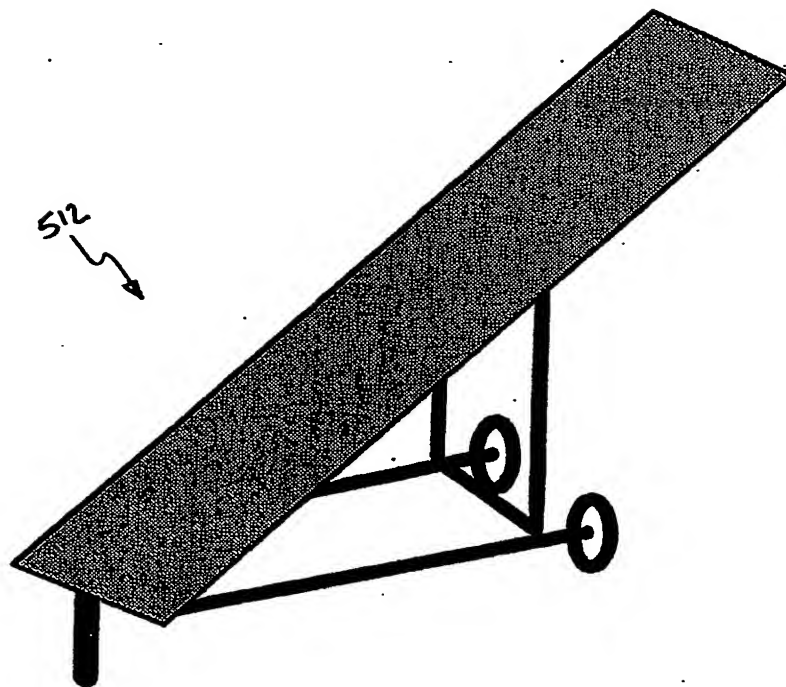
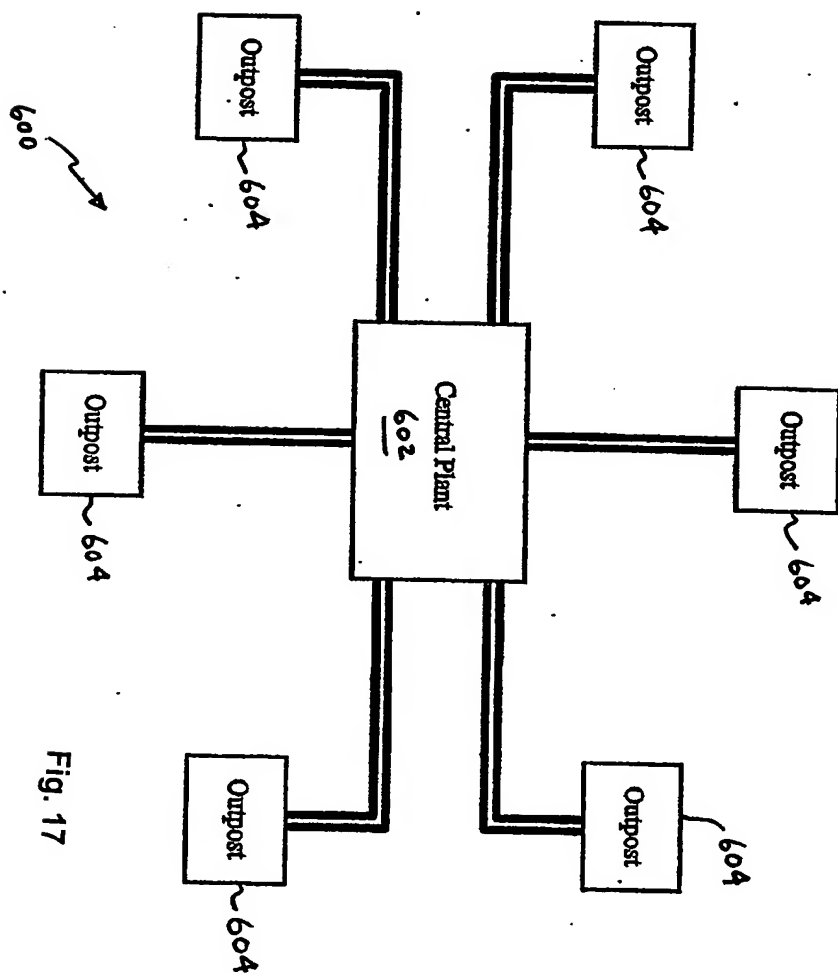


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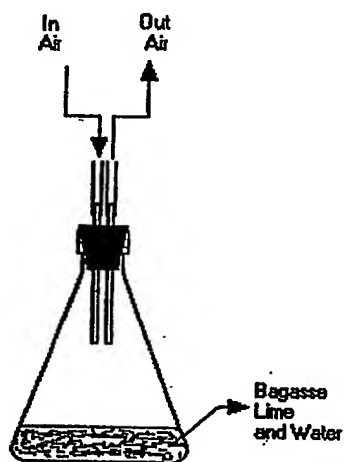


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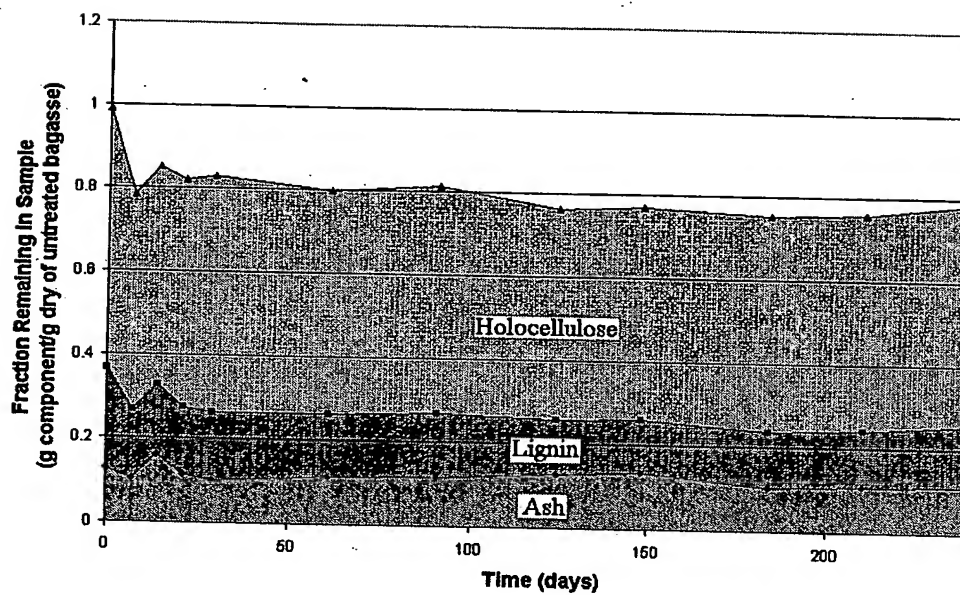


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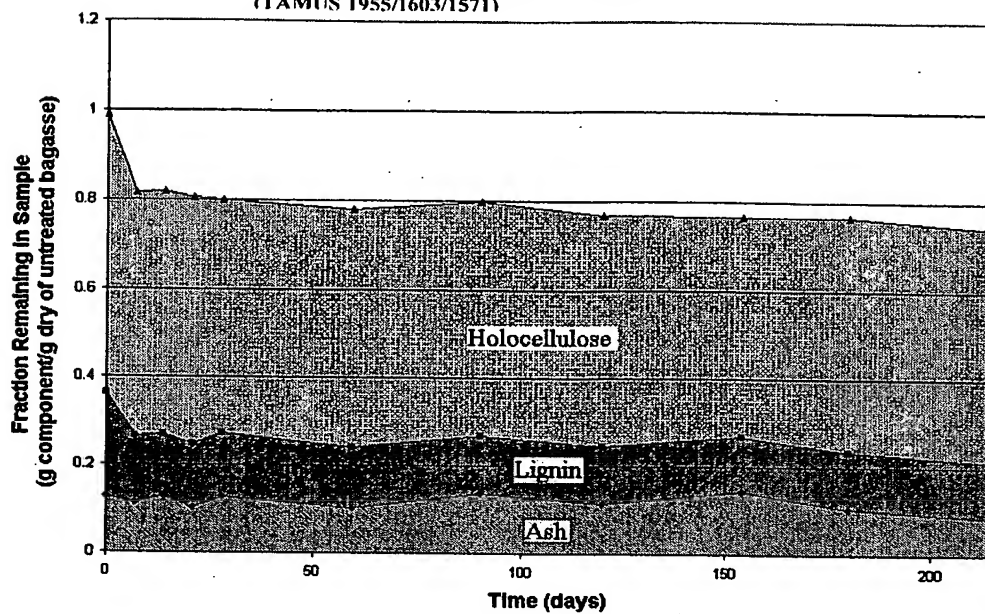


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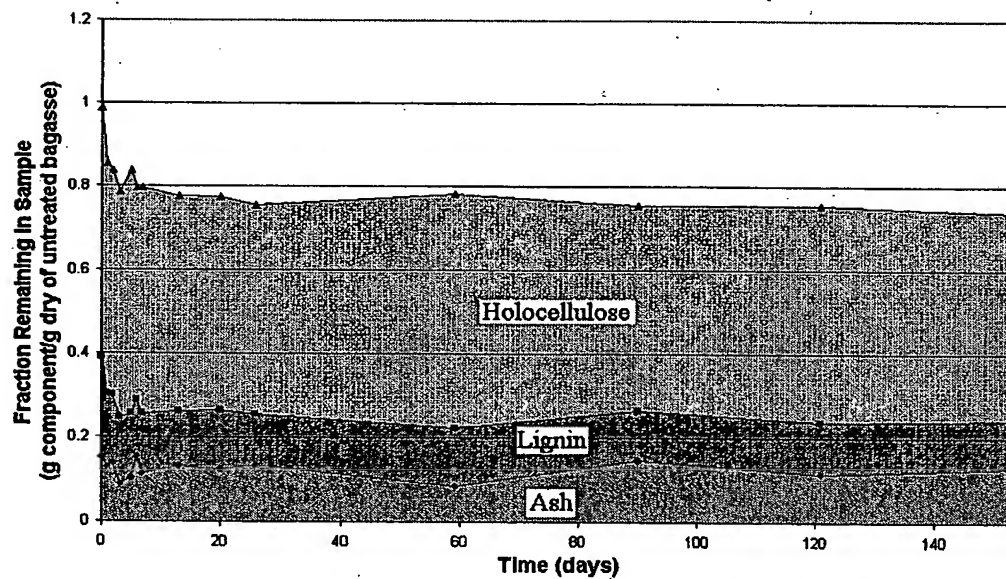


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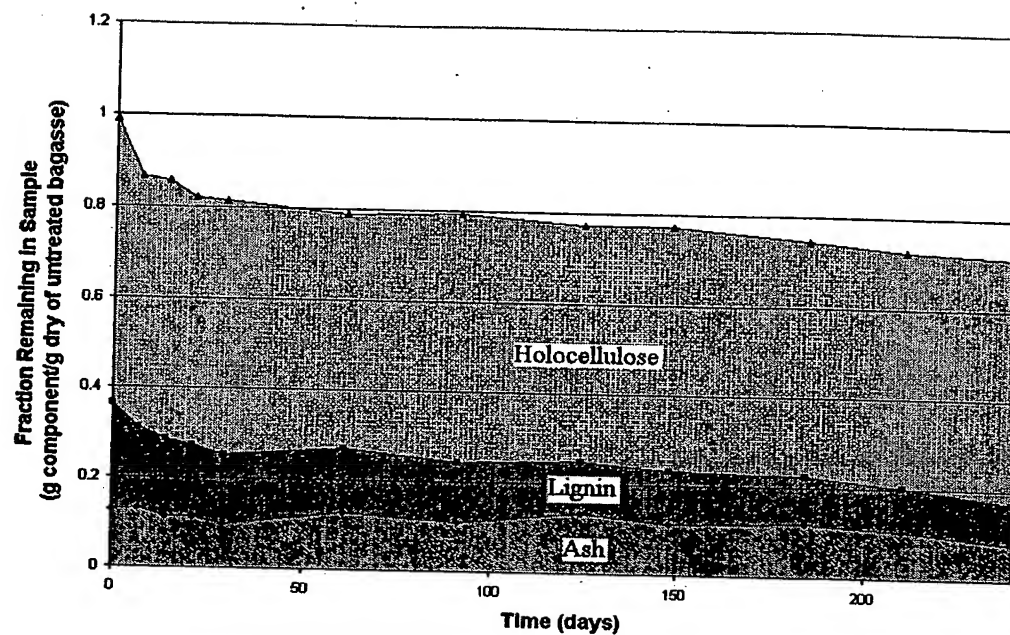


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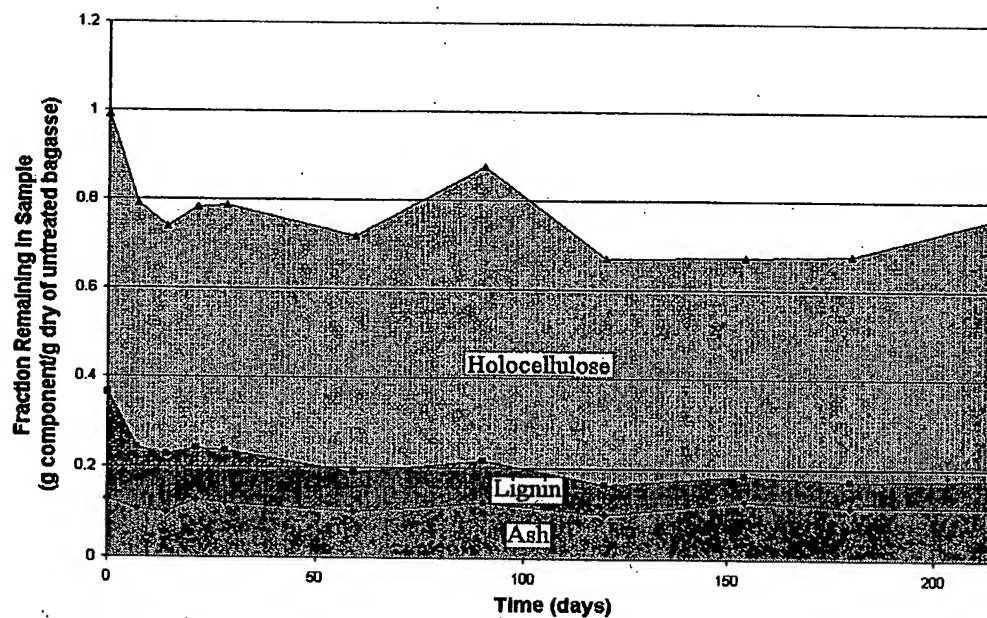


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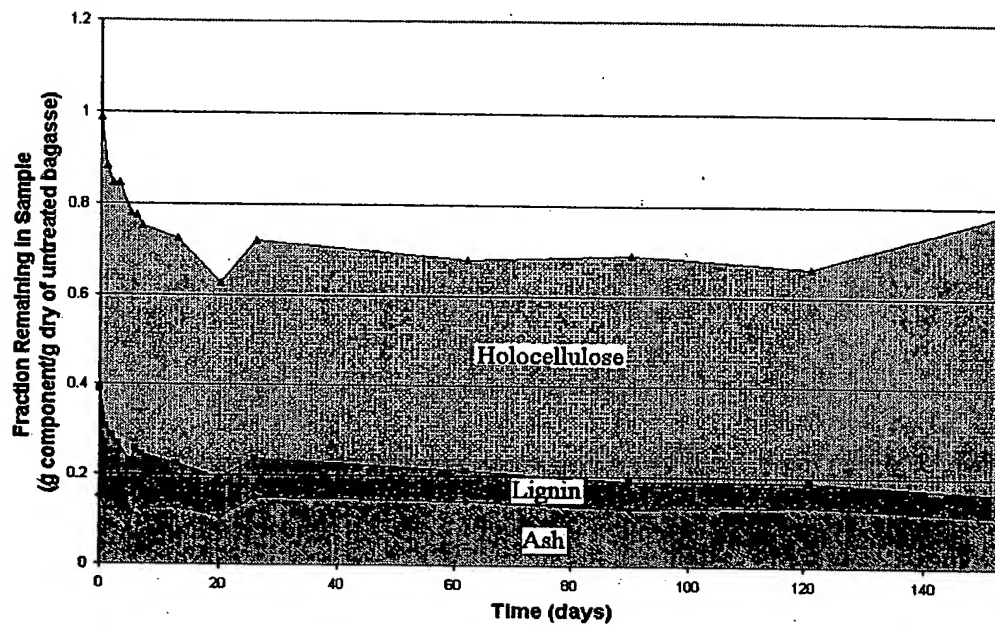


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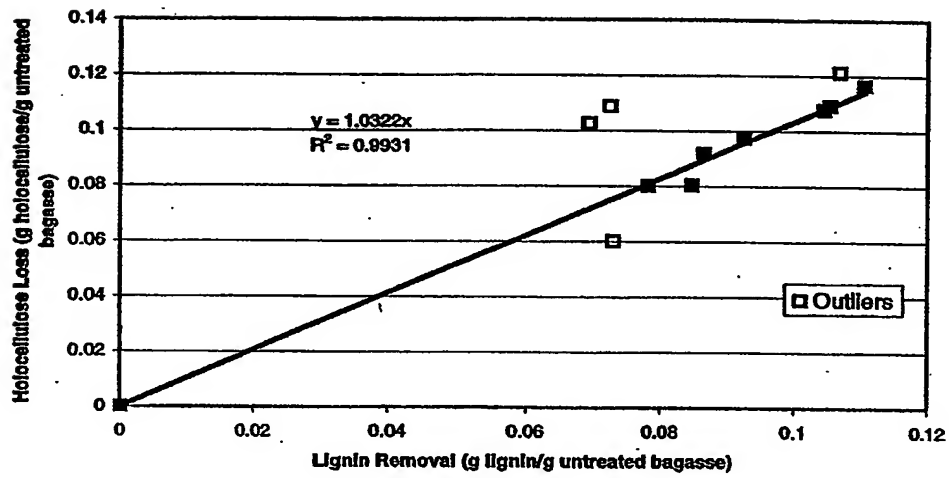


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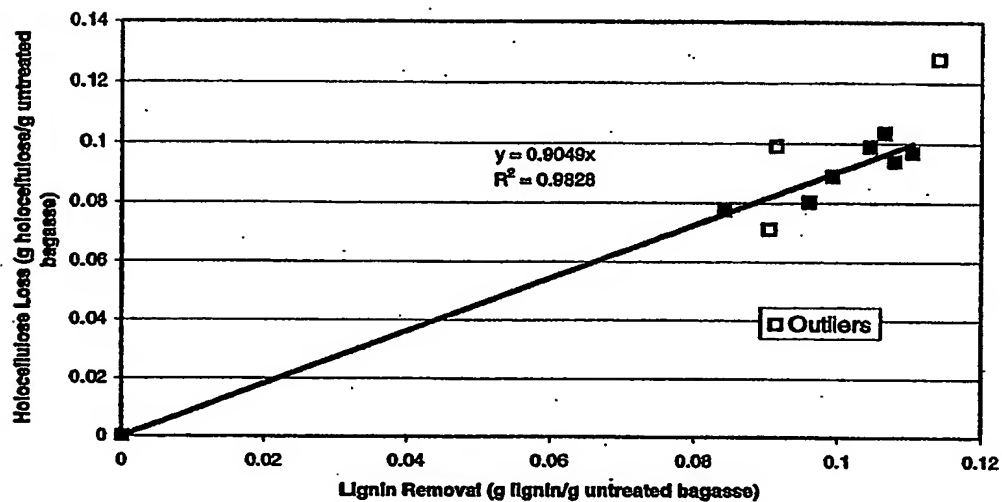


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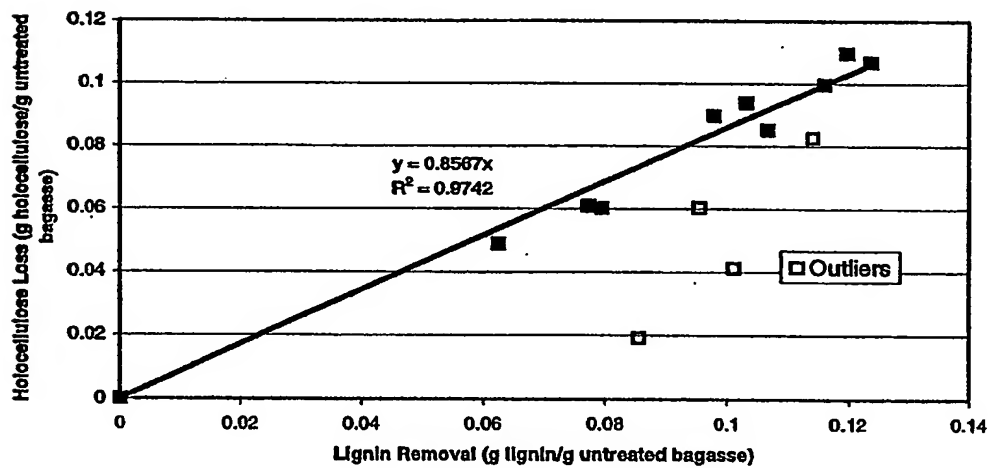


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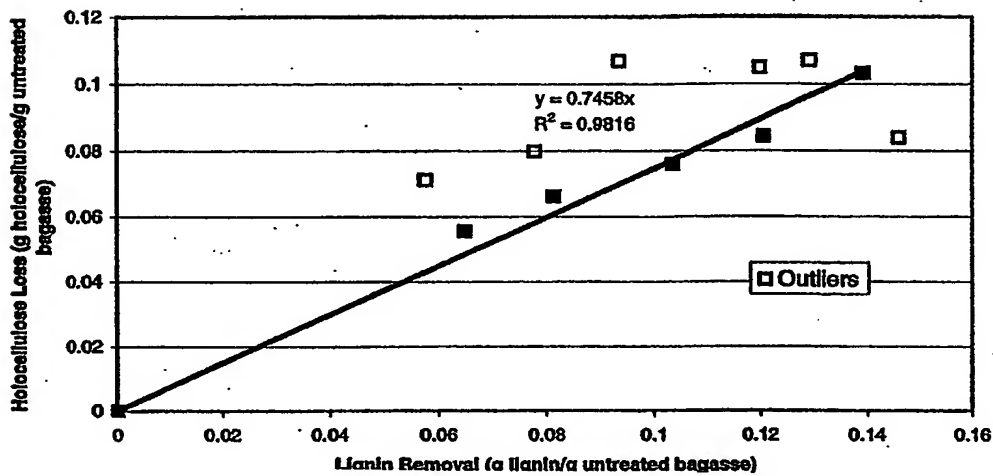


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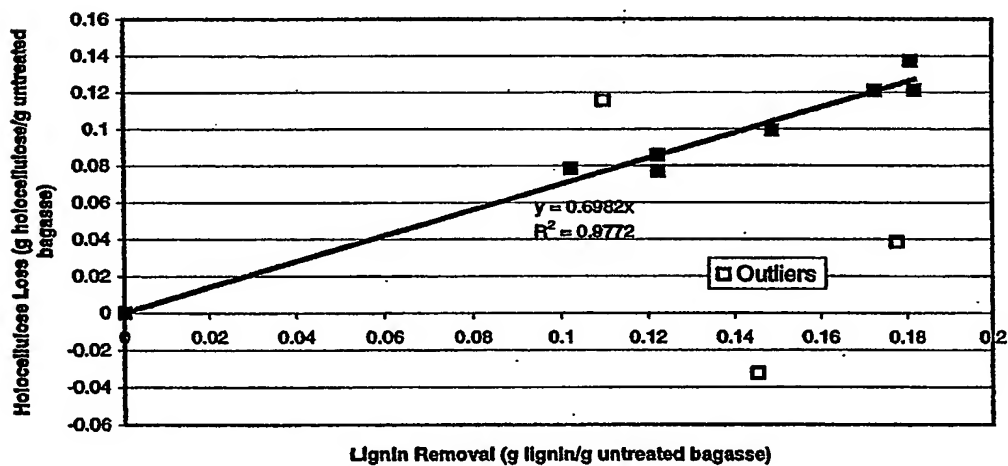


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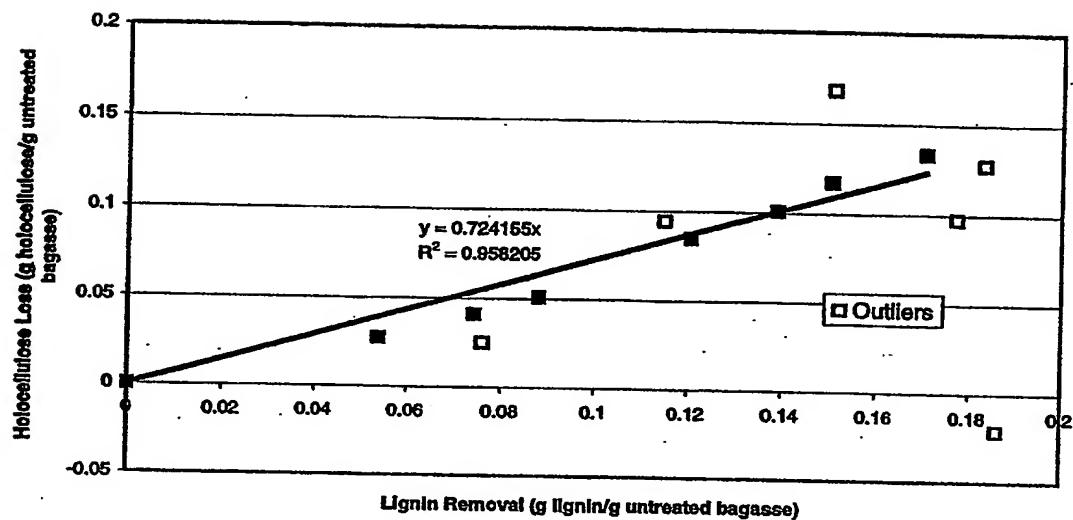


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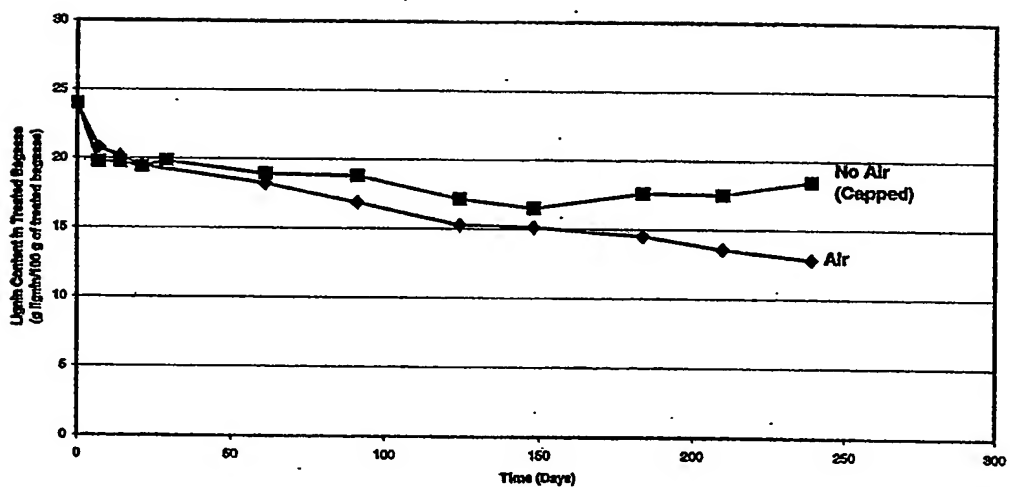


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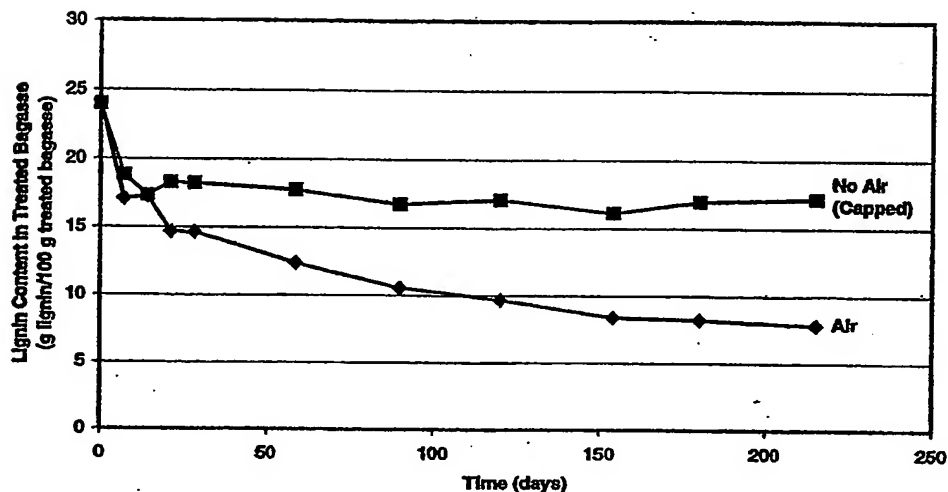


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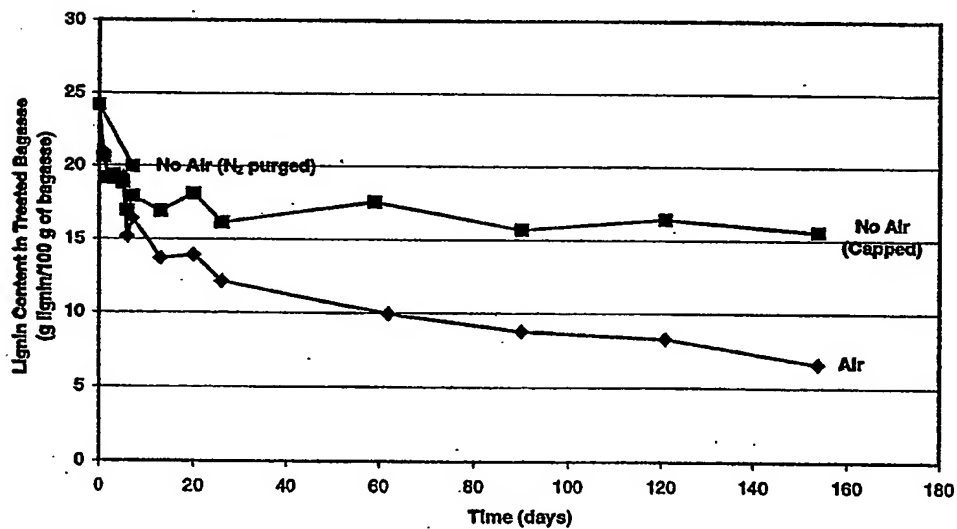


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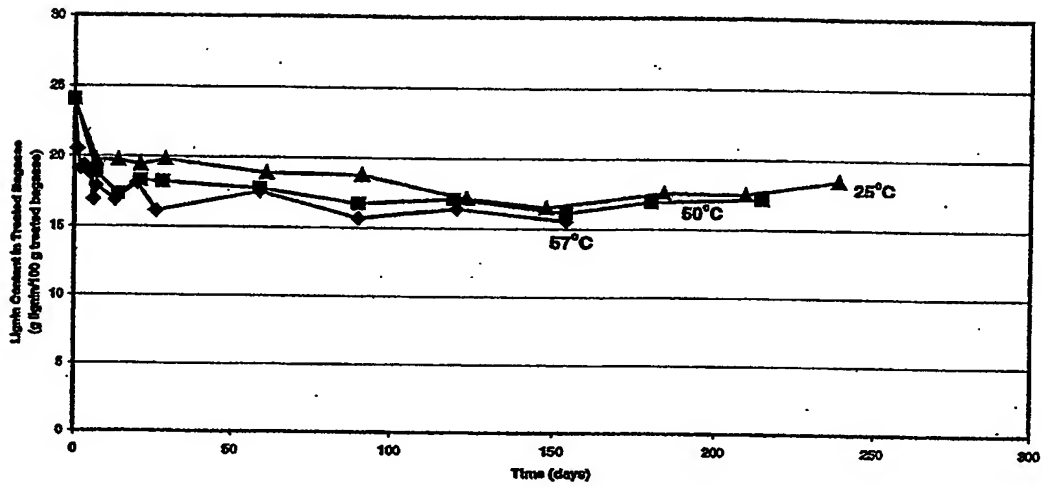


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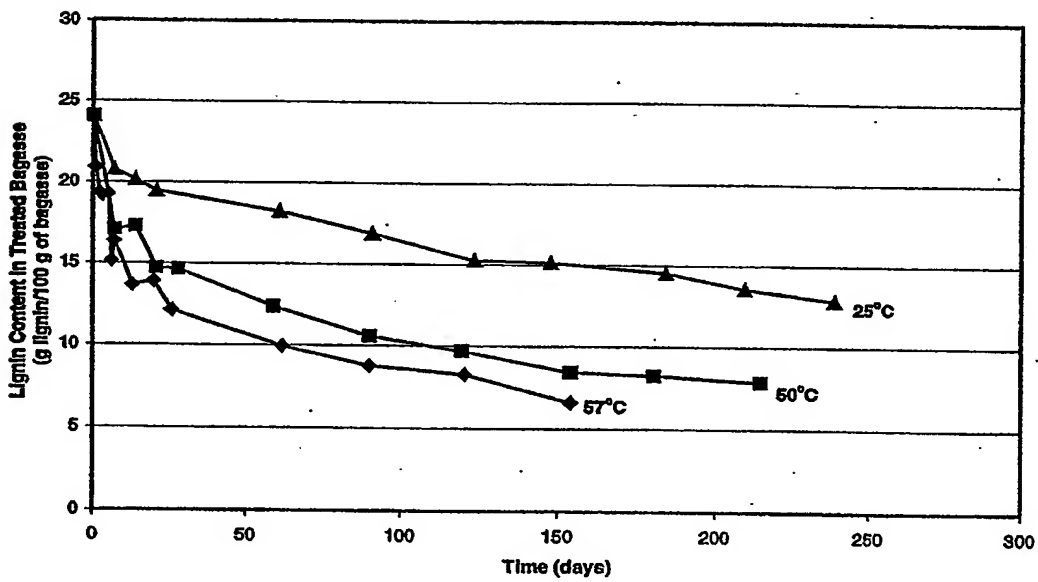


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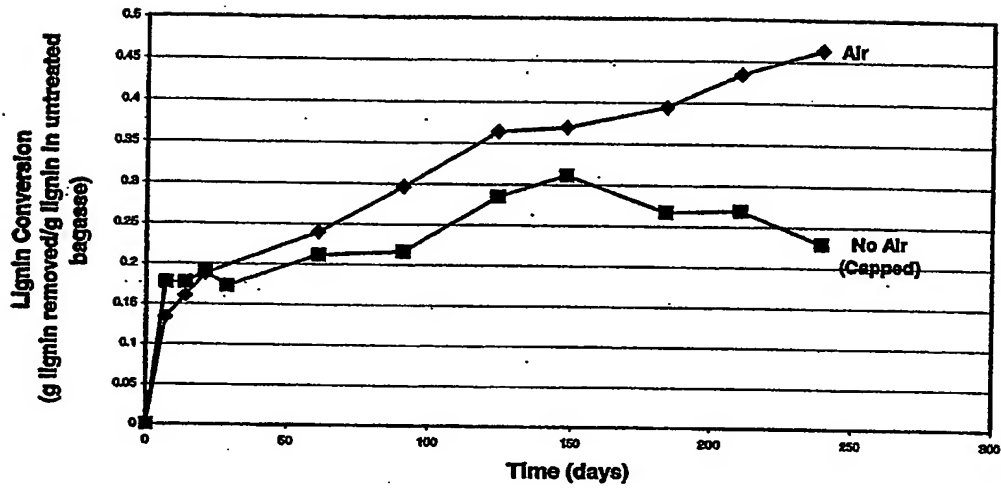


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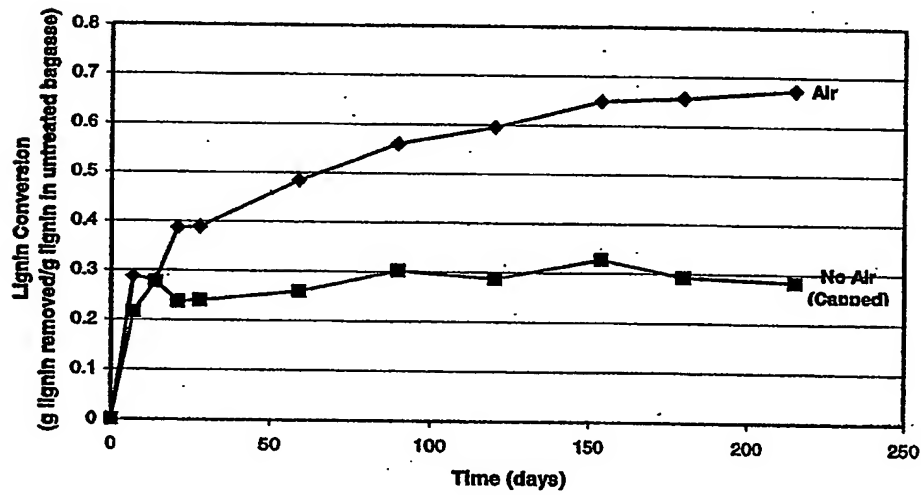


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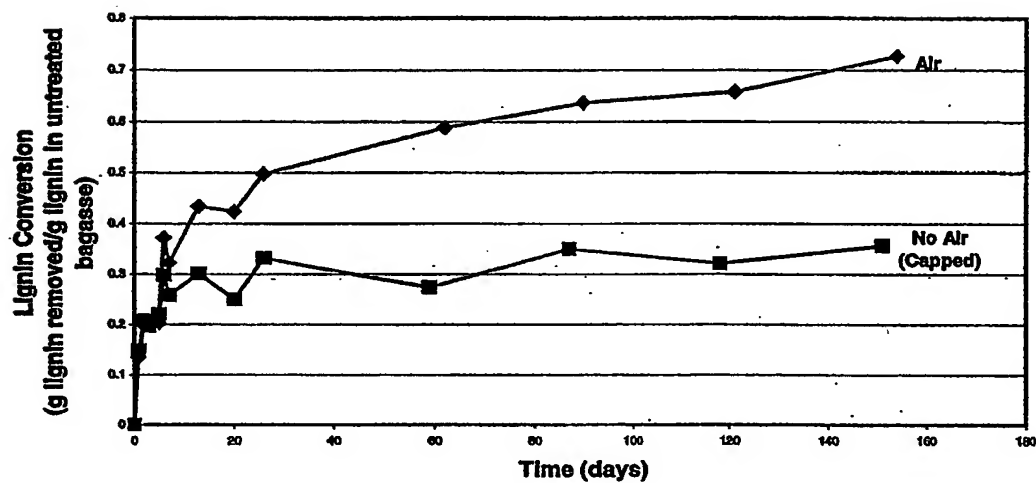


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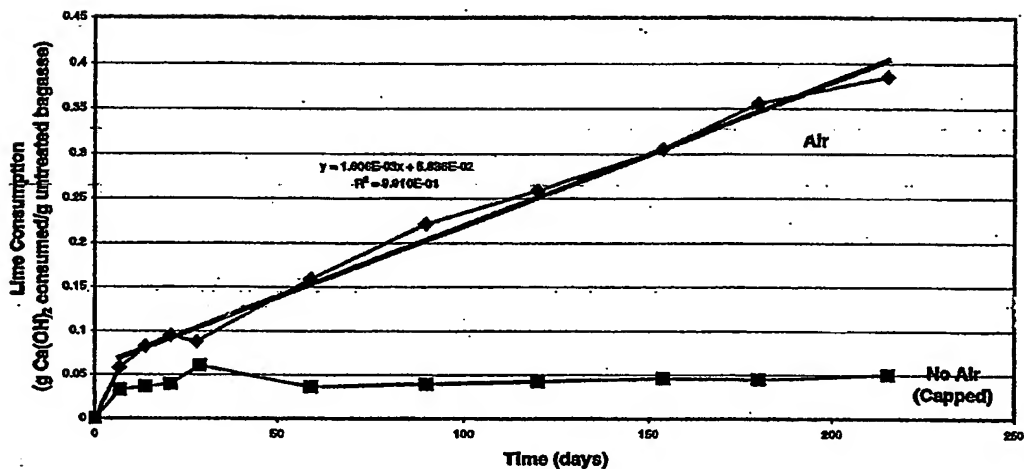


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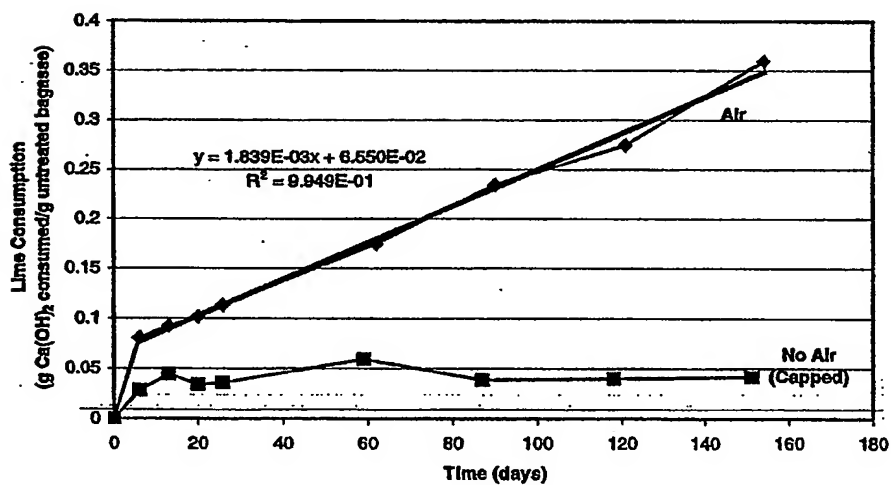


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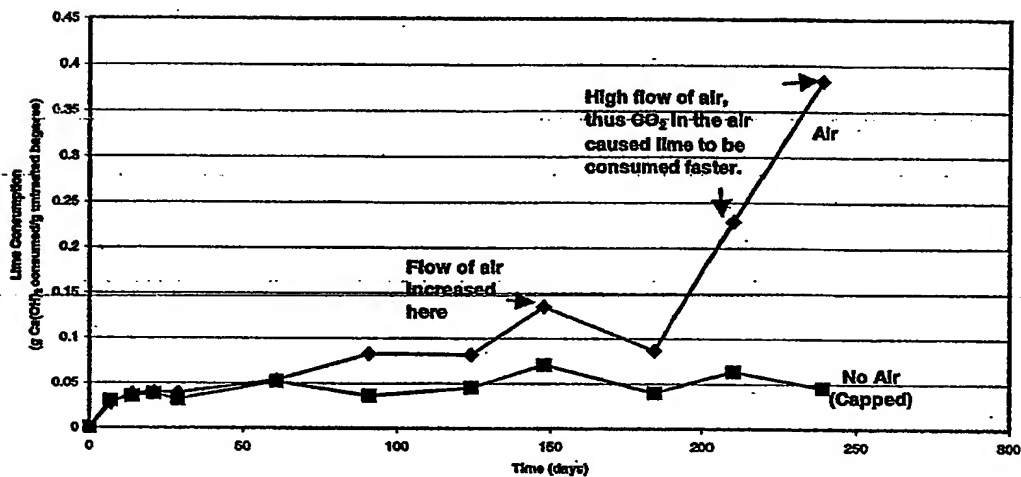


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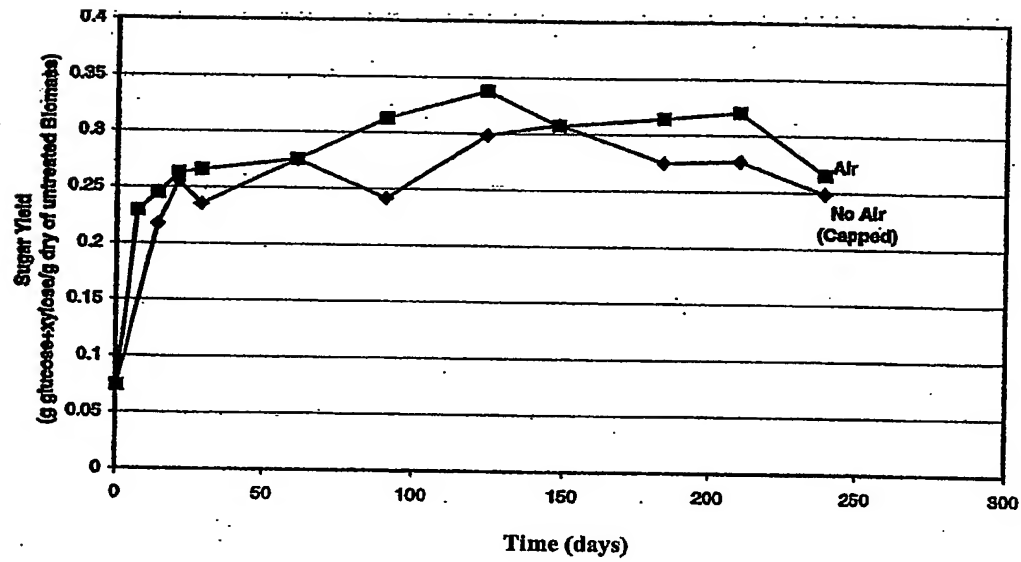


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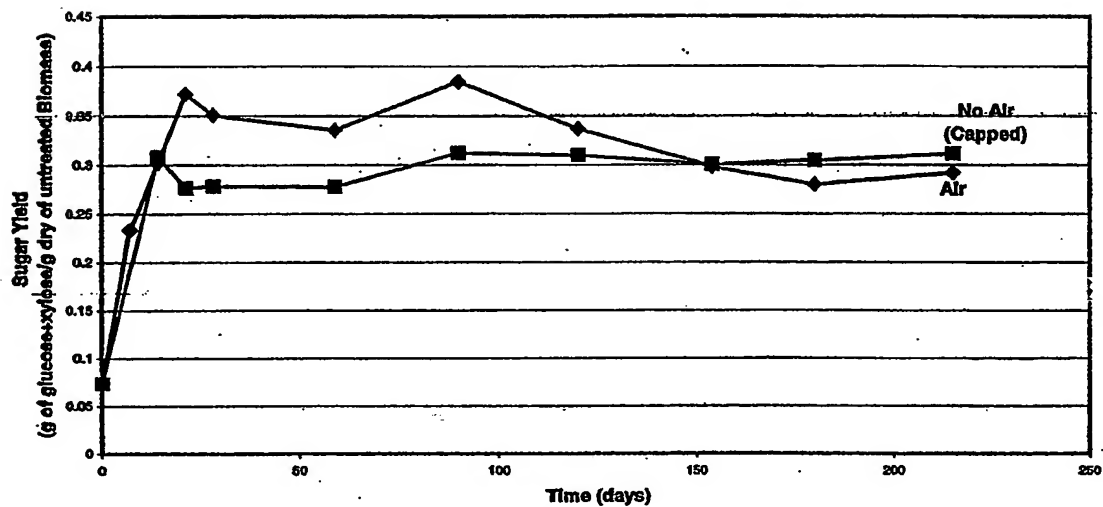


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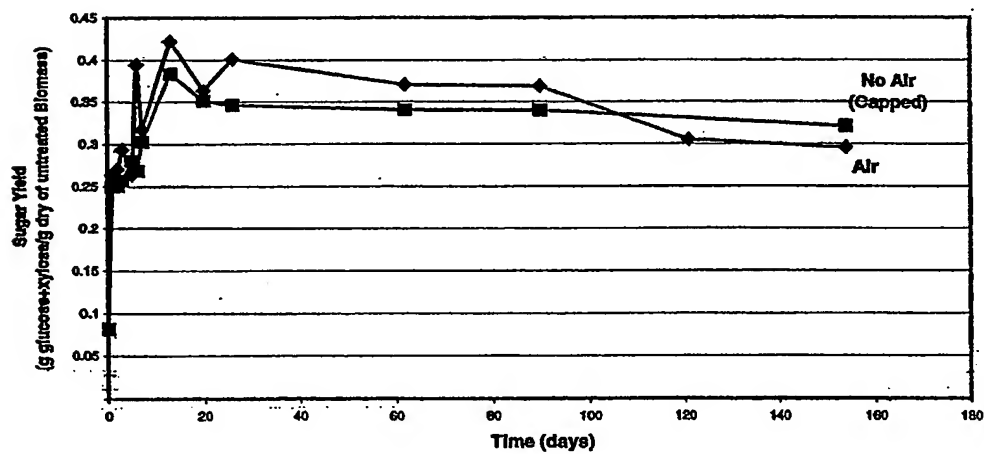


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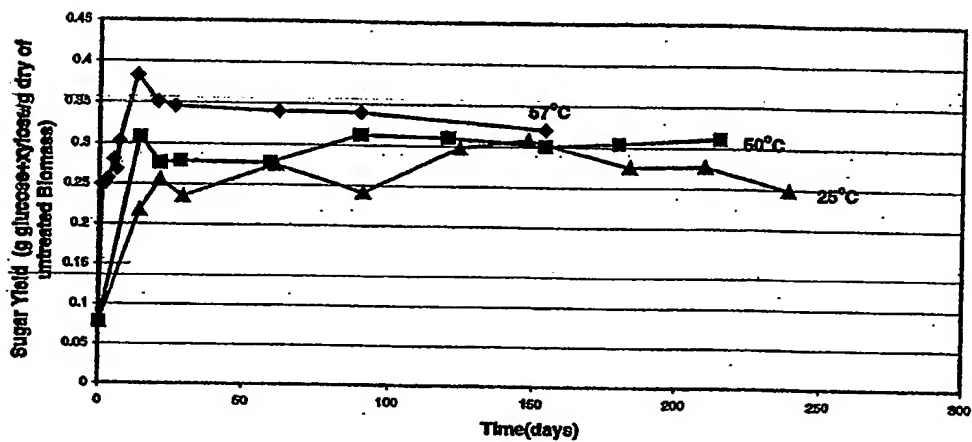


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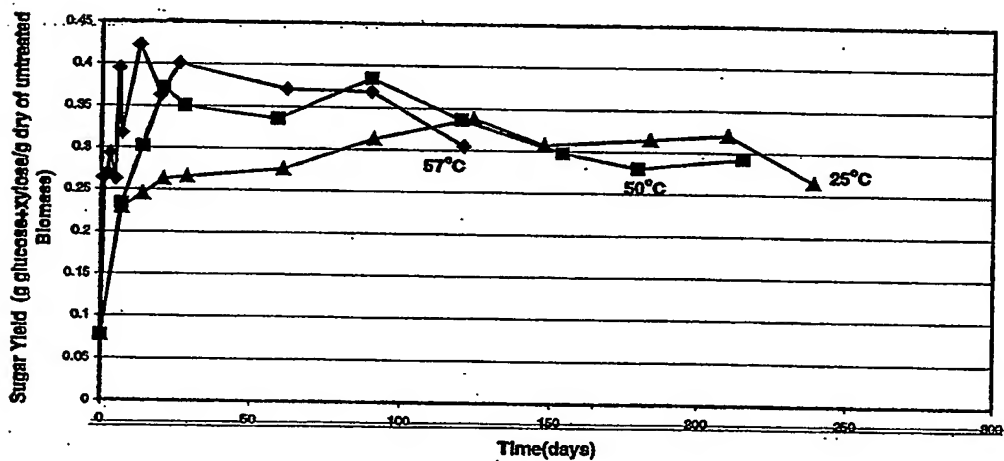


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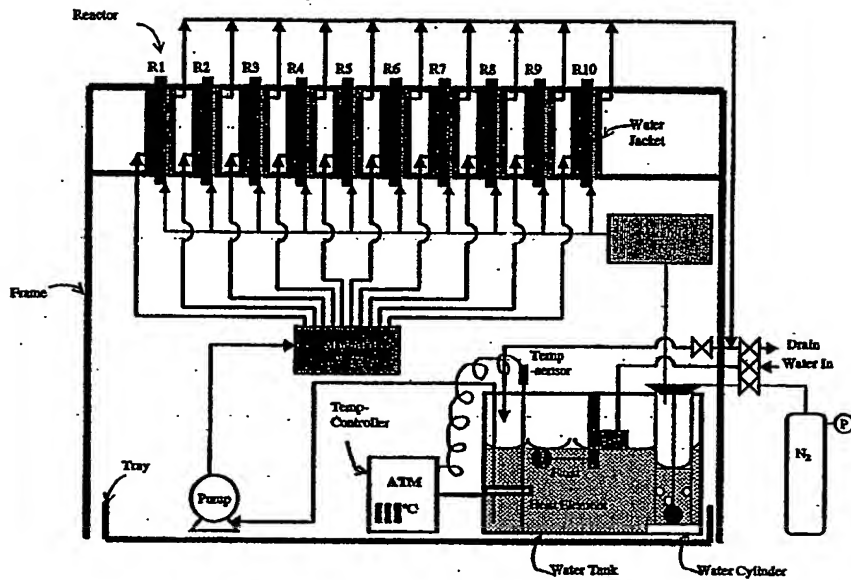


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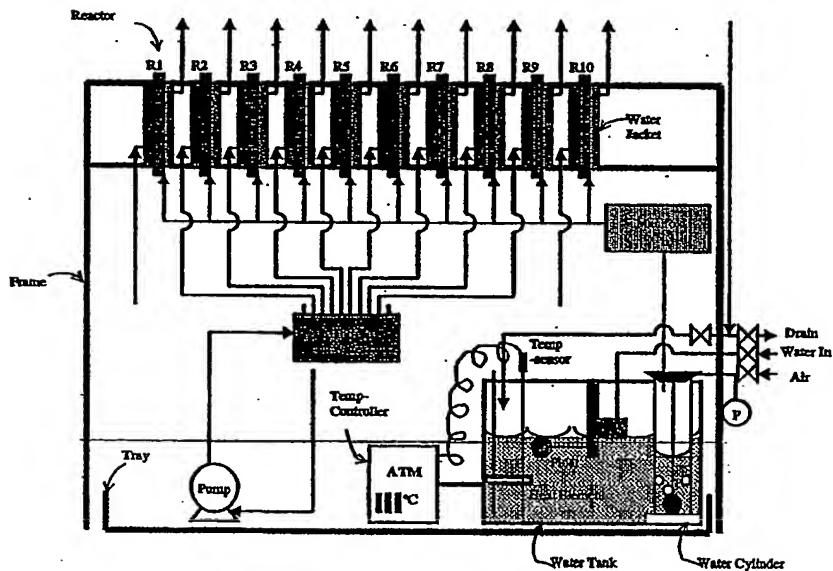


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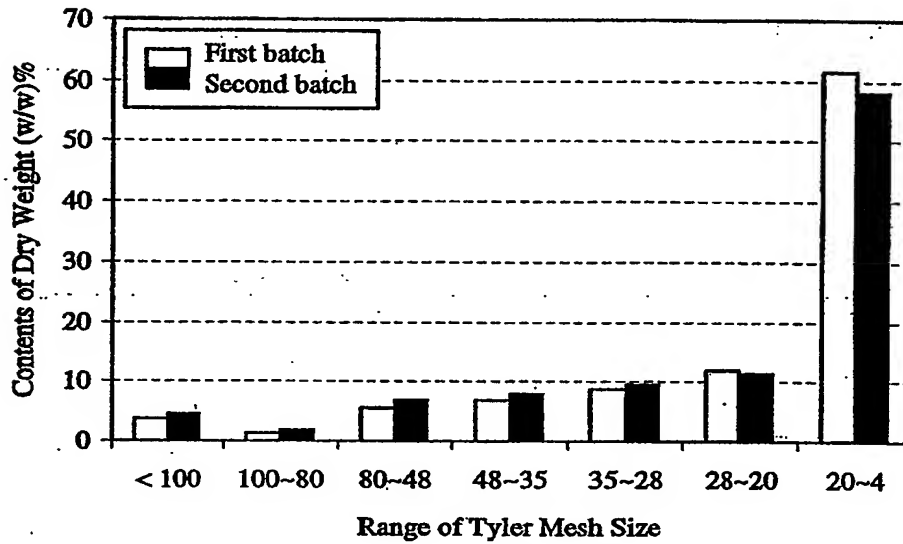


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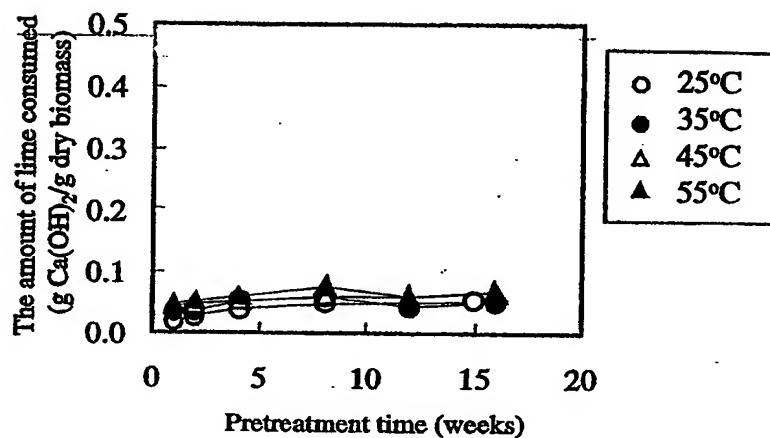


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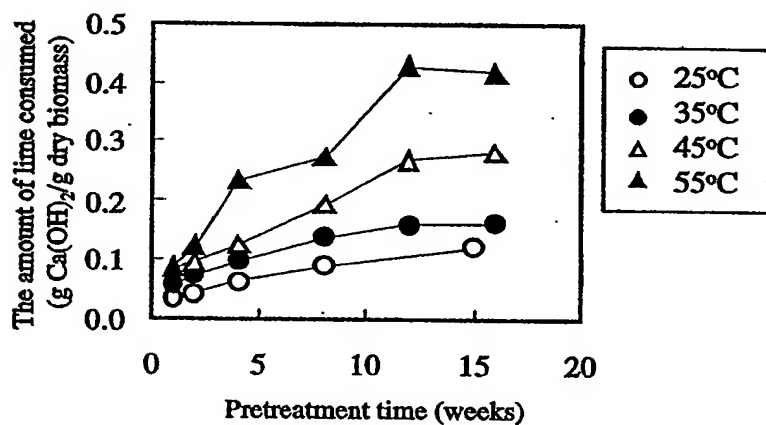


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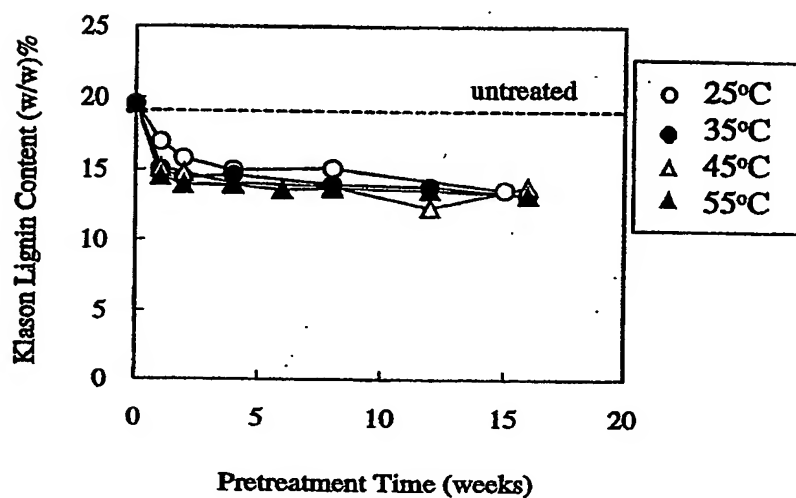


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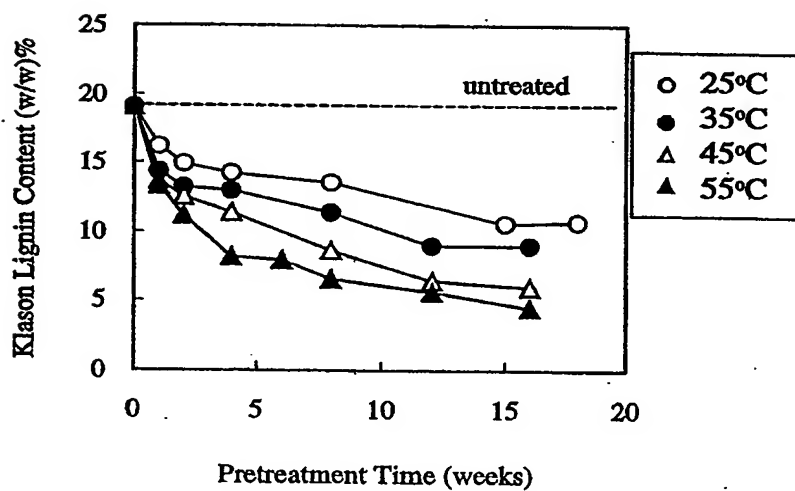


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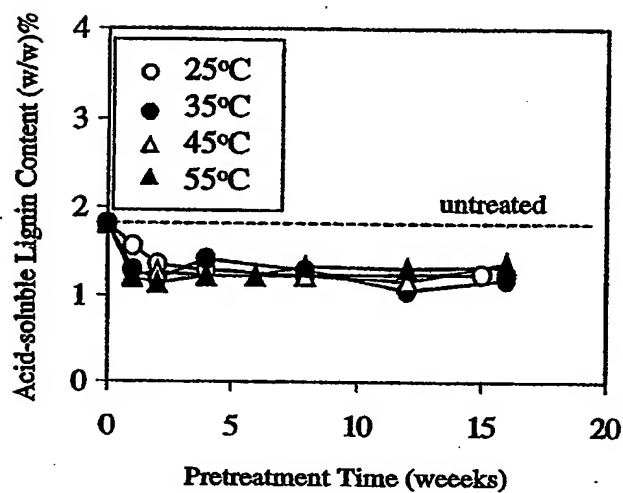


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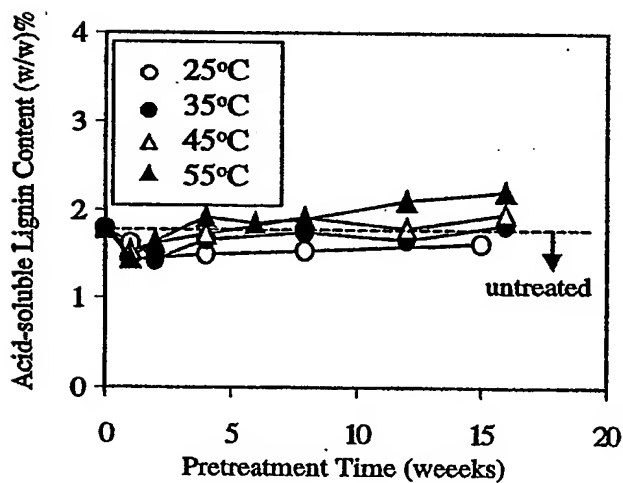


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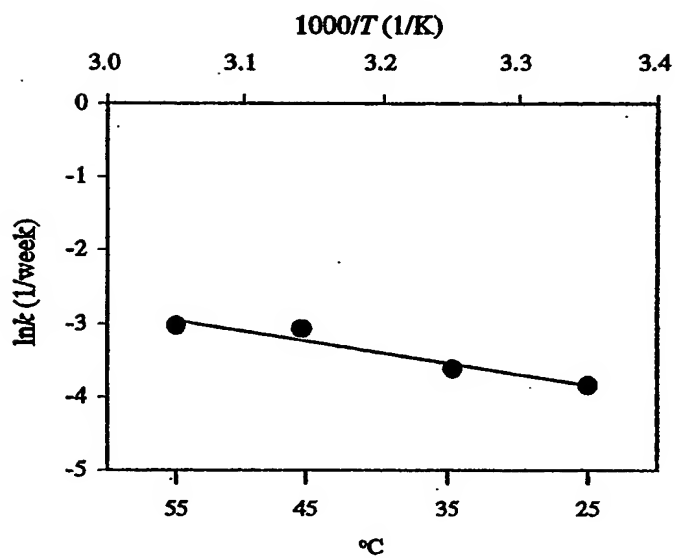


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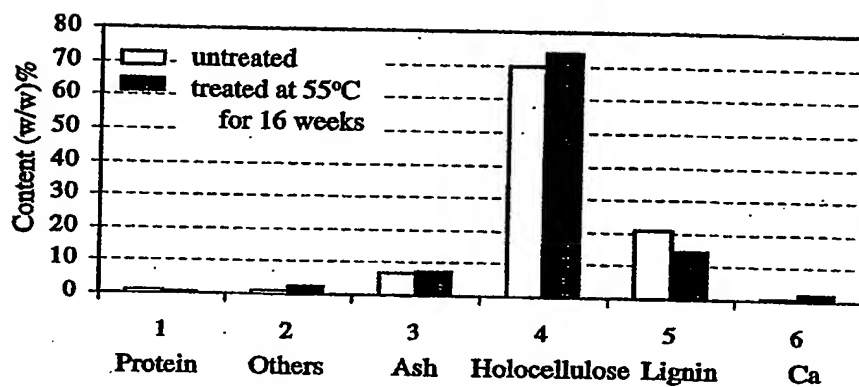


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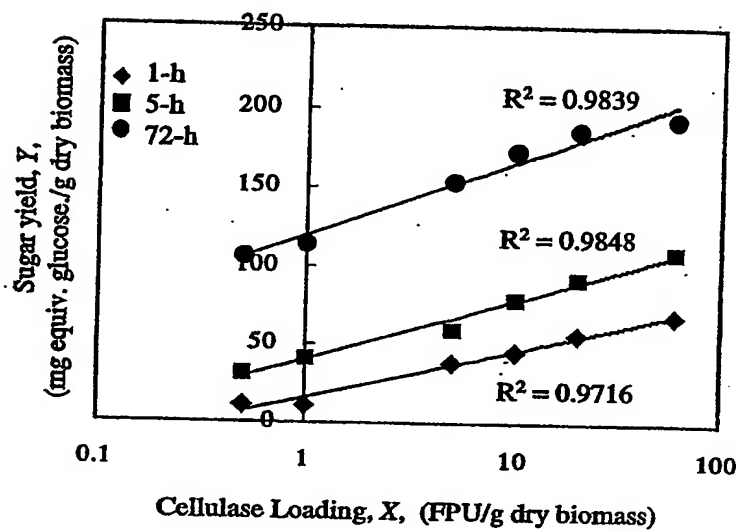


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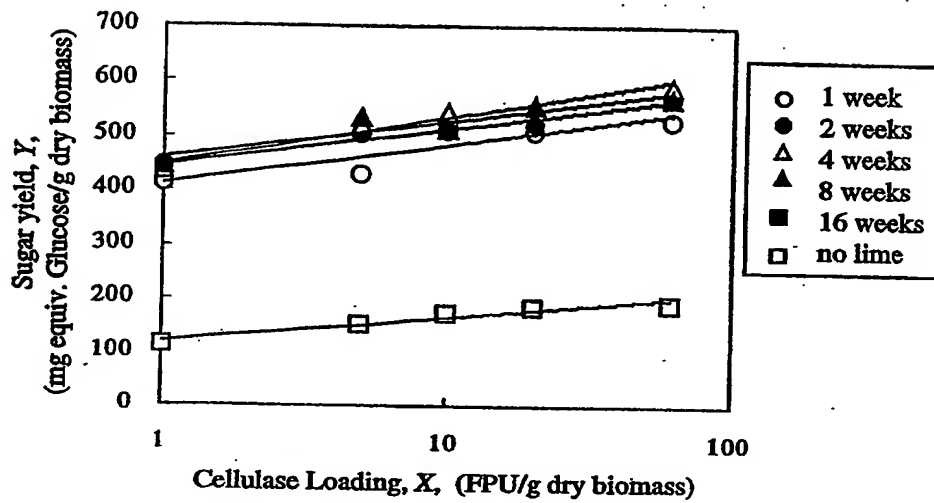


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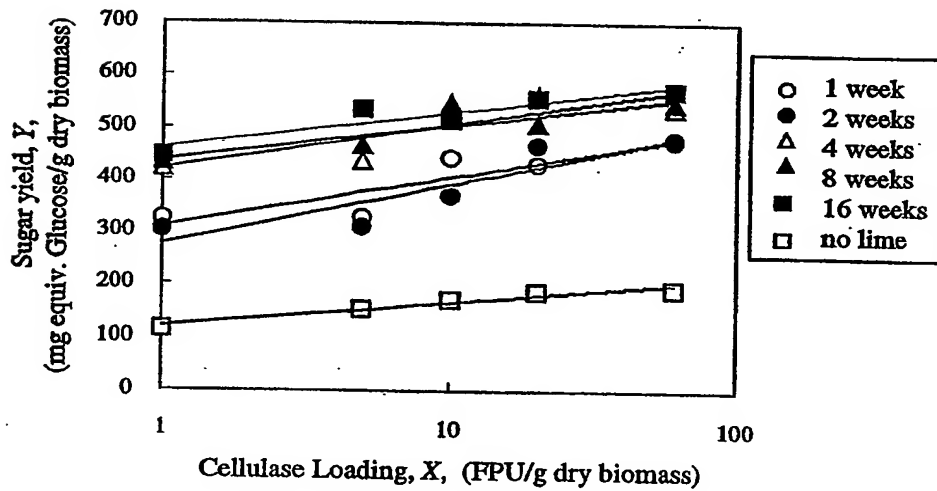


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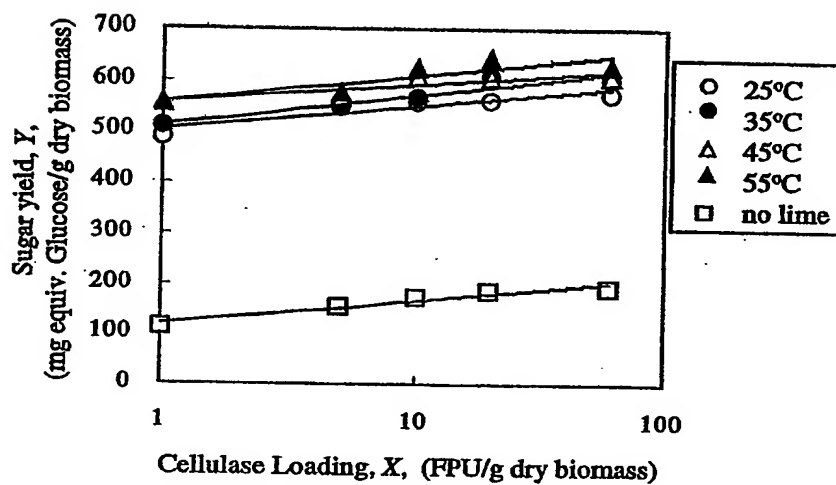
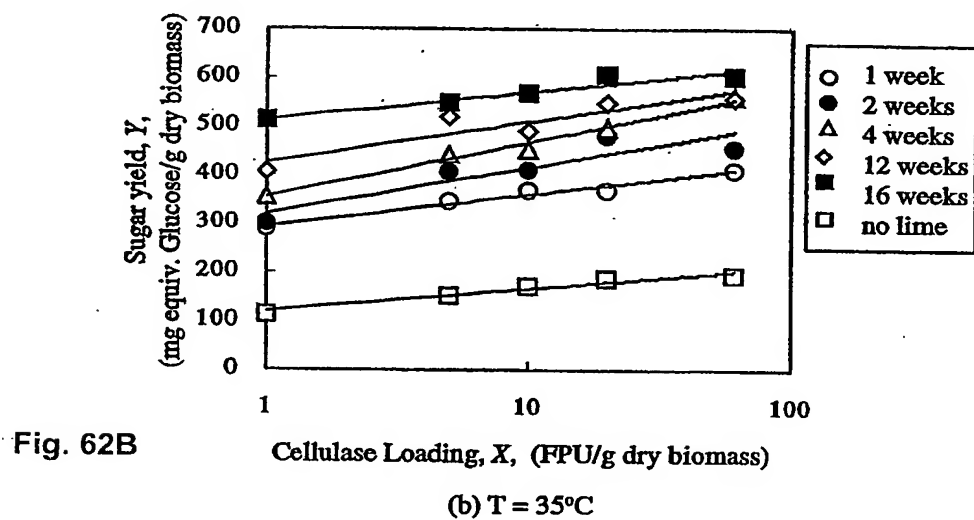
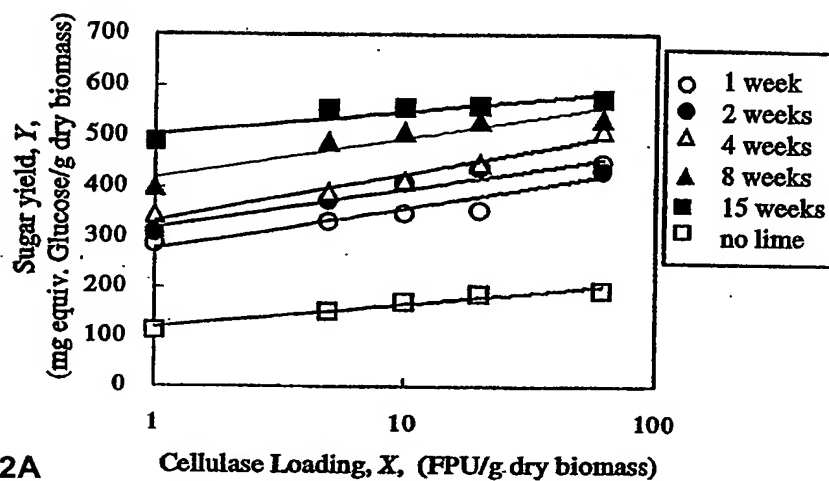
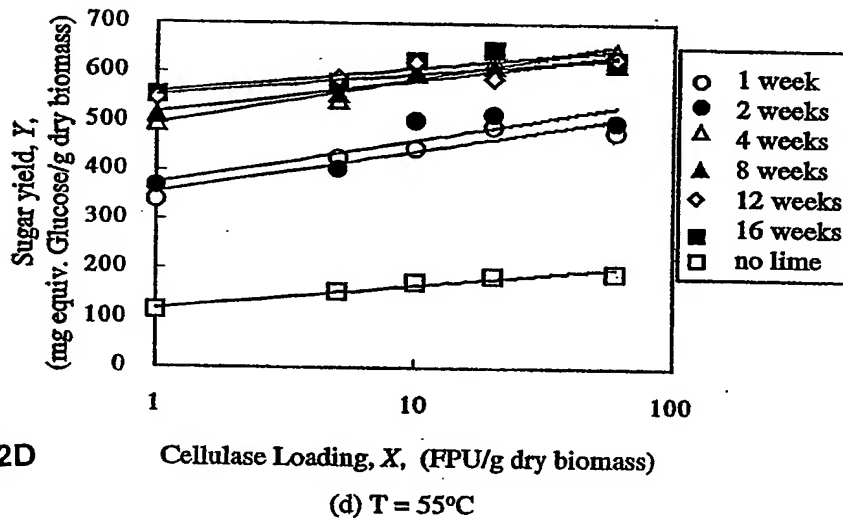
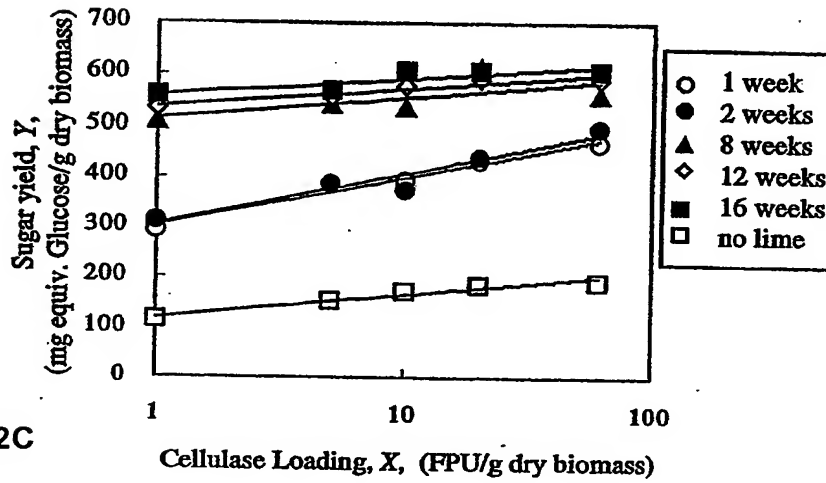
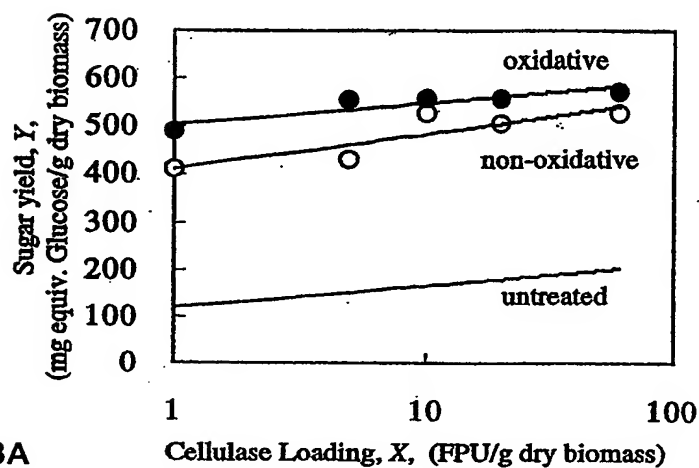


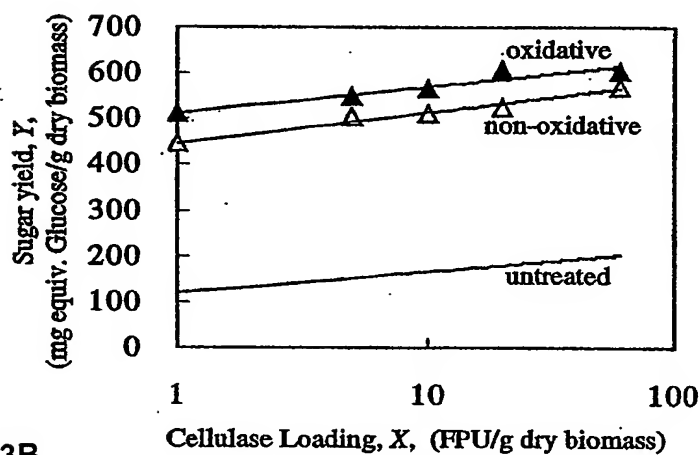
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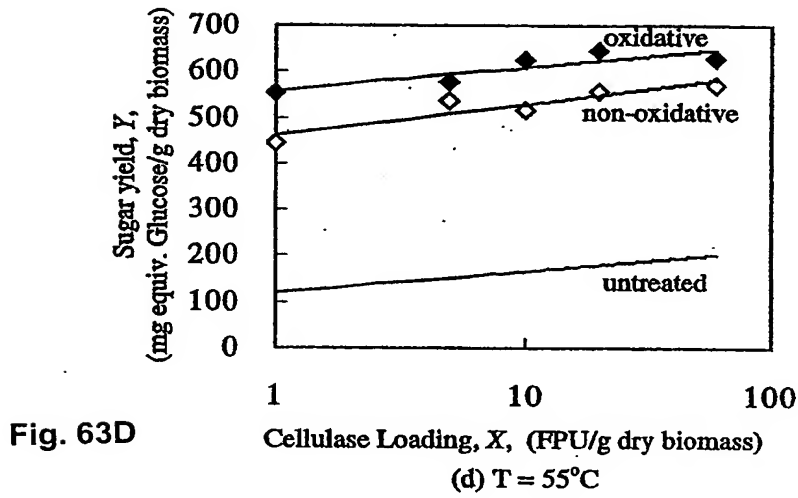
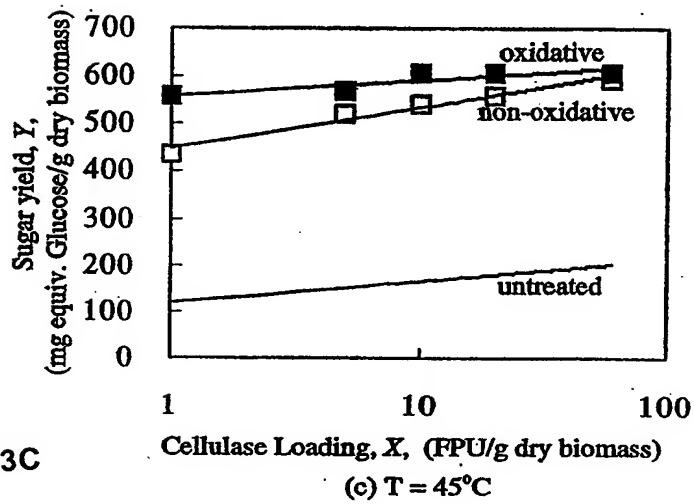




(a) $T = 25^{\circ}\text{C}$



(b) $T = 35^{\circ}\text{C}$



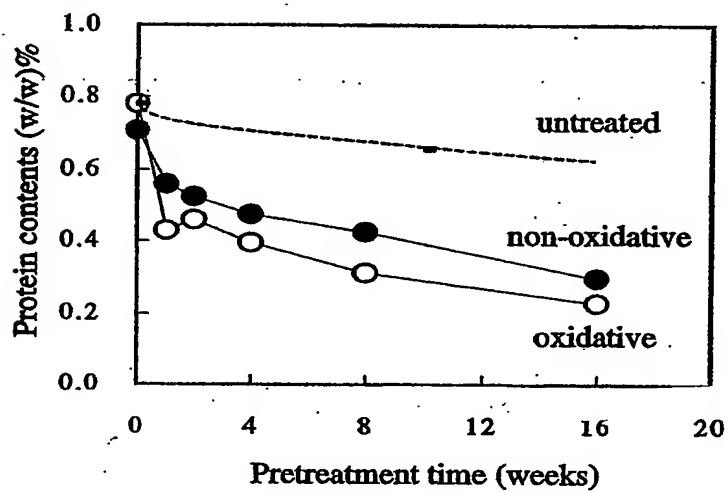


Fig. 64